

ATTACHMENT F

IMPORT MATERIAL ANALYTICAL LABORATORY REPORTS

BERM

Thursday, August 27, 2015

Terry Rice
Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

RE: Storedahl-Evraz / 100

Enclosed are the results of analyses for work order A5G0664, which was received by the laboratory on 7/23/2015 at 4:55:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Owl Creek BF	A5G0664-01	Soil	07/23/15 15:00	07/23/15 16:55

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**

Project Number: 100

Project Manager: Terry Rice

Reported:

08/27/15 11:56

ANALYTICAL CASE NARRATIVE

Work Order: A5G0664

Amended Report Revision 1:

Changes to Semi-Volatile Reporting Limits-

This report supersedes all previous reports.

The final report has been amended to report the 8270 Semi-Volatiles to lower reporting limits.

Darrell Auvil
Project Manager
8/27/2015

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Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Owl Creek BF (A5G0664-01)			Matrix: Soil		Batch: 5070631			C-07	
Aroclor 1016	ND	---	9.96		ug/kg dry	1	07/24/15 08:38	EPA 8082A	
Aroclor 1221	ND	---	9.96		"	"	"	"	
Aroclor 1232	ND	---	9.96		"	"	"	"	
Aroclor 1242	ND	---	9.96		"	"	"	"	
Aroclor 1248	ND	---	9.96		"	"	"	"	
Aroclor 1254	ND	---	9.96		"	"	"	"	
Aroclor 1260	ND	---	9.96		"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 95 %		Limits: 72-126 %		"	"	"	

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ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Owl Creek BF (A5G0664-01)			Matrix: Soil		Batch: 5070615				
Aldrin	ND	---	0.996		ug/kg dry	1	07/24/15 10:42	EPA 8081B	
alpha-BHC	ND	---	0.996		"	"	"	"	
beta-BHC	ND	---	0.996		"	"	"	"	
delta-BHC	ND	---	0.996		"	"	"	"	
gamma-BHC (Lindane)	ND	---	0.996		"	"	"	"	
cis-Chlordane	ND	---	0.996		"	"	"	"	
trans-Chlordane	ND	---	0.996		"	"	"	"	
4,4'-DDD	ND	---	0.996		"	"	"	"	
4,4'-DDE	ND	---	0.996		"	"	"	"	
4,4'-DDT	ND	---	0.996		"	"	"	"	
Dieldrin	ND	---	0.996		"	"	"	"	
Endosulfan I	ND	---	0.996		"	"	"	"	
Endosulfan II	ND	---	0.996		"	"	"	"	
Endosulfan sulfate	ND	---	0.996		"	"	"	"	
Endrin	ND	---	0.996		"	"	"	"	
Endrin Aldehyde	ND	---	0.996		"	"	"	"	
Endrin ketone	ND	---	0.996		"	"	"	"	
Heptachlor	ND	---	0.996		"	"	"	"	
Heptachlor epoxide	ND	---	0.996		"	"	"	"	
Methoxychlor	ND	---	2.99		"	"	"	"	
Chlordane (Technical)	ND	---	29.9		"	"	"	"	
Toxaphene (Total)	ND	---	29.9		"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)		Recovery: 82 %		Limits: 42-129 %		"	"	"	
Decachlorobiphenyl (Surr)		100 %		Limits: 65-151 %		"	"	"	

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Reported:

08/27/15 11:56

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Owl Creek BF (A5G0664-01)			Matrix: Soil		Batch: 5070632				
Acenaphthene	ND	---	9.97		ug/kg dry	1	07/24/15 12:45	EPA 8270D	
Acenaphthylene	ND	---	9.97		"	"	"	"	
Anthracene	ND	---	9.97		"	"	"	"	
Benz(a)anthracene	ND	---	9.97		"	"	"	"	
Benzo(a)pyrene	ND	---	14.9		"	"	"	"	
Benzo(b)fluoranthene	ND	---	14.9		"	"	"	"	
Benzo(k)fluoranthene	ND	---	14.9		"	"	"	"	
Benzo(g,h,i)perylene	ND	---	9.97		"	"	"	"	
Chrysene	ND	---	9.97		"	"	"	"	
Dibenz(a,h)anthracene	ND	---	9.97		"	"	"	"	
Fluoranthene	ND	---	9.97		"	"	"	"	
Fluorene	ND	---	9.97		"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	9.97		"	"	"	"	
1-Methylnaphthalene	ND	---	19.9		"	"	"	"	
2-Methylnaphthalene	ND	---	19.9		"	"	"	"	
Naphthalene	ND	---	19.9		"	"	"	"	
Phenanthrene	ND	---	9.97		"	"	"	"	
Pyrene	ND	---	9.97		"	"	"	"	
Carbazole	ND	---	14.9		"	"	"	"	
Dibenzofuran	ND	---	9.97		"	"	"	"	
4-Chloro-3-methylphenol	ND	---	99.7		"	"	"	"	
2-Chlorophenol	ND	---	49.7		"	"	"	"	
2,4-Dichlorophenol	ND	---	49.7		"	"	"	"	
2,4-Dimethylphenol	ND	---	49.7		"	"	"	"	
2,4-Dinitrophenol	ND	---	249		"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	---	249		"	"	"	"	
2-Methylphenol	ND	---	24.9		"	"	"	"	
3+4-Methylphenol(s)	ND	---	24.9		"	"	"	"	
2-Nitrophenol	ND	---	99.7		"	"	"	"	
4-Nitrophenol	ND	---	99.7		"	"	"	"	
Pentachlorophenol (PCP)	ND	---	99.7		"	"	"	"	
Phenol	ND	---	19.9		"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	---	49.7		"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	---	49.7		"	"	"	"	
2,4,5-Trichlorophenol	ND	---	49.7		"	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Owl Creek BF (A5G0664-01)			Matrix: Soil		Batch: 5070632				
2,4,6-Trichlorophenol	ND	---	49.7		ug/kg dry	1	"	EPA 8270D	
Bis(2-ethylhexyl)phthalate	ND	---	149		"	"	"	"	
Butyl benzyl phthalate	ND	---	99.7		"	"	"	"	
Diethylphthalate	ND	---	99.7		"	"	"	"	
Dimethylphthalate	ND	---	99.7		"	"	"	"	
Di-n-butylphthalate	ND	---	99.7		"	"	"	"	
Di-n-octyl phthalate	ND	---	99.7		"	"	"	"	
N-Nitrosodimethylamine	ND	---	24.9		"	"	"	"	
N-Nitroso-di-n-propylamine	ND	---	24.9		"	"	"	"	
N-Nitrosodiphenylamine	ND	---	24.9		"	"	"	"	
Bis(2-Chloroethoxy) methane	ND	---	24.9		"	"	"	"	
Bis(2-Chloroethyl) ether	ND	---	24.9		"	"	"	"	
Bis(2-Chloroisopropyl) ether	ND	---	24.9		"	"	"	"	
Hexachlorobenzene	ND	---	9.97		"	"	"	"	
Hexachlorobutadiene	ND	---	24.9		"	"	"	"	
Hexachlorocyclopentadiene	ND	---	49.7		"	"	"	"	
Hexachloroethane	ND	---	24.9		"	"	"	"	
2-Chloronaphthalene	ND	---	9.97		"	"	"	"	
1,2-Dichlorobenzene	ND	---	24.9		"	"	"	"	
1,3-Dichlorobenzene	ND	---	24.9		"	"	"	"	
1,4-Dichlorobenzene	ND	---	24.9		"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	24.9		"	"	"	"	
4-Bromophenyl phenyl ether	ND	---	24.9		"	"	"	"	
4-Chlorophenyl phenyl ether	ND	---	24.9		"	"	"	"	
Aniline	ND	---	49.7		"	"	"	"	
4-Chloroaniline	ND	---	24.9		"	"	"	"	
2-Nitroaniline	ND	---	199		"	"	"	"	
3-Nitroaniline	ND	---	199		"	"	"	"	
4-Nitroaniline	ND	---	199		"	"	"	"	
Nitrobenzene	ND	---	99.7		"	"	"	"	
2,4-Dinitrotoluene	ND	---	99.7		"	"	"	"	
2,6-Dinitrotoluene	ND	---	99.7		"	"	"	"	
Benzoic acid	ND	---	1240		"	"	"	"	
Benzyl alcohol	ND	---	49.7		"	"	"	"	
Isophorone	ND	---	24.9		"	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
Owl Creek BF (A5G0664-01)			Matrix: Soil		Batch: 5070632			
Azobenzene (1,2-DPH)	ND	---	24.9	ug/kg dry	1	"	EPA 8270D	
Bis(2-Ethylhexyl) adipate	ND	---	249	"	"	"	"	
3,3'-Dichlorobenzidine	ND	---	99.7	"	"	"	"	
1,2-Dinitrobenzene	ND	---	249	"	"	"	"	
1,3-Dinitrobenzene	ND	---	249	"	"	"	"	
1,4-Dinitrobenzene	ND	---	249	"	"	"	"	
Pyridine	ND	---	49.7	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 110 %		Limits: 37-122 %	"	"	"	
2-Fluorobiphenyl (Surr)		84 %		Limits: 44-115 %	"	"	"	
Phenol-d6 (Surr)		74 %		Limits: 33-122 %	"	"	"	
p-Terphenyl-d14 (Surr)		120 %		Limits: 54-127 %	"	"	"	
2-Fluorophenol (Surr)		99 %		Limits: 35-115 %	"	"	"	
2,4,6-Tribromophenol (Surr)		110 %		Limits: 39-132 %	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Owl Creek BF (A5G0664-01)			Matrix: Soil						
Batch: 5070663									
Arsenic	ND	---	1.03		mg/kg dry	10	07/28/15 11:01	EPA 6020A	
Cadmium	ND	---	0.206		"	"	"	"	
Chromium	3.88	---	1.03		"	"	"	"	
Copper	11.7	---	1.03		"	"	"	"	
Lead	ND	---	1.03		"	"	"	"	
Manganese	145	---	1.03		"	"	"	"	
Mercury	ND	---	0.165		"	"	"	"	
Zinc	17.1	---	4.11		"	"	"	"	

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Project: **Storedahl-Evraz**
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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Owl Creek BF (A5G0664-01)			Matrix: Soil		Batch: 5070634			
% Solids	99.2	---	1.00	% by Weight	1	07/24/15 08:40	EPA 8000C	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070631 - EPA 3546						Soil						
Blank (5070631-BLK1)						Prepared: 07/23/15 12:04		Analyzed: 07/23/15 16:03			C-07	
EPA 8082A												
Aroclor 1016	ND	---	8.33	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1262	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1268	ND	---	8.33	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 99 %		Limits: 72-126 %		Dilution: 1x						
LCS (5070631-BS1)						Prepared: 07/23/15 12:04		Analyzed: 07/23/15 16:22			C-07	
EPA 8082A												
Aroclor 1016	183	---	10.0	ug/kg wet	1	250	---	73	47-134%	---	---	
Aroclor 1260	226	---	10.0	"	"	"	---	90	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 92 %		Limits: 72-126 %		Dilution: 1x						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070615 - EPA 3546						Soil						
Blank (5070615-BLK1)						Prepared: 07/23/15 07:19 Analyzed: 07/23/15 19:02						
EPA 8081B												
Aldrin	ND	---	0.833	ug/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	---	0.833	"	"	---	---	---	---	---	---	
beta-BHC	ND	---	0.833	"	"	---	---	---	---	---	---	
delta-BHC	ND	---	0.833	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	---	0.833	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	---	0.833	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	---	0.833	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	---	0.833	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	---	0.833	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	---	0.833	"	"	---	---	---	---	---	---	
Dieldrin	ND	---	0.833	"	"	---	---	---	---	---	---	
Endosulfan I	ND	---	0.833	"	"	---	---	---	---	---	---	
Endosulfan II	ND	---	0.833	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	---	0.833	"	"	---	---	---	---	---	---	
Endrin	ND	---	0.833	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	---	0.833	"	"	---	---	---	---	---	---	
Endrin ketone	ND	---	0.833	"	"	---	---	---	---	---	---	
Heptachlor	ND	---	0.833	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	---	0.833	"	"	---	---	---	---	---	---	
Methoxychlor	ND	---	2.50	"	"	---	---	---	---	---	---	
Chlordane (Technical)	ND	---	25.0	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	---	25.0	"	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 82 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		108 %		65-151 %		"						
Q-41												

Q-41

LCS (5070615-BS1)

Prepared: 07/23/15 07:19 Analyzed: 07/23/15 19:20

EPA 8081B												
Aldrin	43.9	---	1.00	ug/kg wet	1	50.0	---	88	45-136%	---	---	
alpha-BHC	44.3	---	1.00	"	"	"	---	89	45-137%	---	---	Q-41
beta-BHC	40.7	---	1.00	"	"	"	---	81	50-136%	---	---	
delta-BHC	43.4	---	1.00	"	"	"	---	87	47-139%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070615 - EPA 3546						Soil						
LCS (5070615-BS1)						Prepared: 07/23/15 07:19 Analyzed: 07/23/15 19:20						
gamma-BHC (Lindane)	43.5	---	1.00	"	"	"	---	87	49-135%	---	---	
cis-Chlordane	43.1	---	1.00	"	"	"	---	86	54-133%	---	---	
trans-Chlordane	46.3	---	1.00	"	"	"	---	93	53-135%	---	---	
4,4'-DDD	49.3	---	1.00	"	"	"	---	99	56-139%	---	---	
4,4'-DDE	48.9	---	1.00	"	"	"	---	98	56-134%	---	---	
4,4'-DDT	48.1	---	1.00	"	"	"	---	96	50-141%	---	---	
Dieldrin	47.4	---	1.00	"	"	"	---	95	56-136%	---	---	
Endosulfan I	45.9	---	1.00	"	"	"	---	92	52-132%	---	---	
Endosulfan II	51.3	---	1.00	"	"	"	---	103	53-134%	---	---	
Endosulfan sulfate	48.2	---	1.00	"	"	"	---	96	55-136%	---	---	
Endrin	47.1	---	1.00	"	"	"	---	94	56-140%	---	---	
Endrin Aldehyde	51.8	---	1.00	"	"	"	---	104	35-137%	---	---	
Endrin ketone	47.6	---	1.00	"	"	"	---	95	55-136%	---	---	
Heptachlor	42.5	---	1.00	"	"	"	---	85	47-136%	---	---	
Heptachlor epoxide	45.0	---	1.00	"	"	"	---	90	52-136%	---	---	
Methoxychlor	54.7	---	3.00	"	"	"	---	109	52-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			Recovery: 76 %	Limits: 42-129 %	Dilution: 1x							
Decachlorobiphenyl (Surr)			106 %	65-151 %	"							

Q-41

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz

Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070632 - EPA 3546						Soil						
Blank (5070632-BLK1)				Prepared: 07/23/15 12:06 Analyzed: 07/23/15 16:38								
EPA 8270D												
Acenaphthene	ND	---	8.34	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	8.34	"	"	---	---	---	---	---	---	
Anthracene	ND	---	8.34	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	8.34	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	12.5	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	12.5	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	12.5	"	"	---	---	---	---	---	---	
Benzo(b+k)fluoranthene(s)	ND	---	25.0	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	8.34	"	"	---	---	---	---	---	---	
Chrysene	ND	---	8.34	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	8.34	"	"	---	---	---	---	---	---	
Fluoranthene	ND	---	8.34	"	"	---	---	---	---	---	---	
Fluorene	ND	---	8.34	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	8.34	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	16.7	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	16.7	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	16.7	"	"	---	---	---	---	---	---	
Phenanthrene	ND	---	8.34	"	"	---	---	---	---	---	---	
Pyrene	ND	---	8.34	"	"	---	---	---	---	---	---	
Carbazole	ND	---	12.5	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	---	8.34	"	"	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	83.4	"	"	---	---	---	---	---	---	
2-Chlorophenol	ND	---	41.6	"	"	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	41.6	"	"	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	41.6	"	"	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	208	"	"	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	208	"	"	---	---	---	---	---	---	
2-Methylphenol	ND	---	20.8	"	"	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	20.8	"	"	---	---	---	---	---	---	
2-Nitrophenol	ND	---	83.4	"	"	---	---	---	---	---	---	

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Darrell Auvil For Darwin Thomas, Business Development Director

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070632 - EPA 3546						Soil						
Blank (5070632-BLK1)						Prepared: 07/23/15 12:06 Analyzed: 07/23/15 16:38						
4-Nitrophenol	ND	---	83.4	ug/kg wet	"	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	83.4	"	"	---	---	---	---	---	---	
Phenol	ND	---	16.7	"	"	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	41.6	"	"	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	---	43.8	"	"	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	41.6	"	"	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	41.6	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	125	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	83.4	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	---	83.4	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	---	83.4	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	83.4	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	83.4	"	"	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	20.8	"	"	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	20.8	"	"	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	20.8	"	"	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	20.8	"	"	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	20.8	"	"	---	---	---	---	---	---	
Bis(2-Chloroisopropyl) ether	ND	---	20.8	"	"	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	8.34	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	20.8	"	"	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	41.6	"	"	---	---	---	---	---	---	
Hexachloroethane	ND	---	20.8	"	"	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	8.34	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	20.8	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	20.8	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	20.8	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	20.8	"	"	---	---	---	---	---	---	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070632 - EPA 3546						Soil						
Blank (5070632-BLK1)						Prepared: 07/23/15 12:06		Analyzed: 07/23/15 16:38				
4-Bromophenyl phenyl ether	ND	---	20.8	ug/kg wet	"	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	20.8	"	"	---	---	---	---	---	---	
Aniline	ND	---	41.6	"	"	---	---	---	---	---	---	
4-Chloroaniline	ND	---	20.8	"	"	---	---	---	---	---	---	
2-Nitroaniline	ND	---	167	"	"	---	---	---	---	---	---	
3-Nitroaniline	ND	---	167	"	"	---	---	---	---	---	---	
4-Nitroaniline	ND	---	167	"	"	---	---	---	---	---	---	
Nitrobenzene	ND	---	83.4	"	"	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	83.4	"	"	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	83.4	"	"	---	---	---	---	---	---	
Benzoic acid	ND	---	1040	"	"	---	---	---	---	---	---	
Benzyl alcohol	ND	---	41.6	"	"	---	---	---	---	---	---	
Isophorone	ND	---	20.8	"	"	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	---	20.8	"	"	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	208	"	"	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	83.4	"	"	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	---	208	"	"	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	208	"	"	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	208	"	"	---	---	---	---	---	---	
Pyridine	ND	---	41.6	"	"	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery:		110 %	Limits: 37-122 %		Dilution: 1x		Q-41			
2-Fluorobiphenyl (Surr)				90 %	44-115 %		"					
Phenol-d6 (Surr)				77 %	33-122 %		"					
p-Terphenyl-d14 (Surr)				117 %	54-127 %		"					
2-Fluorophenol (Surr)				91 %	35-115 %		"					
2,4,6-Tribromophenol (Surr)				99 %	39-132 %		"		Q-41			
LCS (5070632-BS1)						Prepared: 07/23/15 12:06		Analyzed: 07/23/15 17:16				
EPA 8270D												
Acenaphthene	860	---	10.0	ug/kg wet	1	800	---	107	40-122%	---	---	
Acenaphthylene	859	---	10.0	"	"	"	---	107	32-132%	---	---	

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Project Number: 100
Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070632 - EPA 3546						Soil						
LCS (5070632-BS1)						Prepared: 07/23/15 12:06 Analyzed: 07/23/15 17:16						
Anthracene	881	---	10.0	ug/kg wet	"	"	---	110	47-123%	---	---	
Benz(a)anthracene	878	---	10.0	"	"	"	---	110	49-126%	---	---	
Benzo(a)pyrene	917	---	15.0	"	"	"	---	115	45-129%	---	---	
Benzo(b)fluoranthene	911	---	15.0	"	"	"	---	114	45-132%	---	---	
Benzo(k)fluoranthene	878	---	15.0	"	"	"	---	110	47-132%	---	---	
Benzo(b+k)fluoranthene(s)	1830	---	30.0	"	"	1600	---	114	45-132%	---	---	
Benzo(g,h,i)perylene	865	---	10.0	"	"	800	---	108	43-134%	---	---	
Chrysene	851	---	10.0	"	"	"	---	106	50-124%	---	---	
Dibenz(a,h)anthracene	834	---	10.0	"	"	"	---	104	45-134%	---	---	
Fluoranthene	897	---	10.0	"	"	"	---	112	50-127%	---	---	
Fluorene	841	---	10.0	"	"	"	---	105	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	795	---	10.0	"	"	"	---	99	45-133%	---	---	
1-Methylnaphthalene	803	---	20.0	"	"	"	---	100	40-120%	---	---	
2-Methylnaphthalene	839	---	20.0	"	"	"	---	105	38-122%	---	---	
Naphthalene	814	---	20.0	"	"	"	---	102	35-123%	---	---	
Phenanthrene	825	---	10.0	"	"	"	---	103	50-121%	---	---	
Pyrene	870	---	10.0	"	"	"	---	109	47-127%	---	---	
Carbazole	871	---	15.0	"	"	"	---	109	50-122%	---	---	
Dibenzofuran	831	---	10.0	"	"	"	---	104	44-120%	---	---	
4-Chloro-3-methylphenol	789	---	100	"	"	"	---	99	45-122%	---	---	
2-Chlorophenol	844	---	49.9	"	"	"	---	106	34-121%	---	---	
2,4-Dichlorophenol	772	---	49.9	"	"	"	---	97	40-122%	---	---	
2,4-Dimethylphenol	872	---	49.9	"	"	"	---	109	30-127%	---	---	
2,4-Dinitrophenol	792	---	250	"	"	"	---	99	5-137%	---	---	
4,6-Dinitro-2-methylphenol	789	---	250	"	"	"	---	99	29-132%	---	---	
2-Methylphenol	885	---	25.0	"	"	"	---	111	32-122%	---	---	
3+4-Methylphenol(s)	846	---	25.0	"	"	"	---	106	34-120%	---	---	
2-Nitrophenol	839	---	100	"	"	"	---	105	36-123%	---	---	
4-Nitrophenol	721	---	100	"	"	"	---	90	30-132%	---	---	
Pentachlorophenol (PCP)	861	---	100	"	"	"	---	108	25-133%	---	---	
Phenol	918	---	20.0	"	"	"	---	115	34-120%	---	---	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070632 - EPA 3546						Soil						
LCS (5070632-BS1)						Prepared: 07/23/15 12:06 Analyzed: 07/23/15 17:16						
2,3,4,6-Tetrachlorophenol	865	---	49.9	ug/kg wet	"	"	---	108	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	814	---	52.5	"	"	"	---	102	40-120%	---	---	
2,4,5-Trichlorophenol	807	---	49.9	"	"	"	---	101	41-124%	---	---	
2,4,6-Trichlorophenol	837	---	49.9	"	"	"	---	105	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	865	---	150	"	"	"	---	108	51-133%	---	---	
Butyl benzyl phthalate	888	---	100	"	"	"	---	111	48-132%	---	---	
Diethylphthalate	912	---	100	"	"	"	---	114	50-124%	---	---	
Dimethylphthalate	921	---	100	"	"	"	---	115	48-124%	---	---	
Di-n-butylphthalate	982	---	100	"	"	"	---	123	51-128%	---	---	
Di-n-octyl phthalate	830	---	100	"	"	"	---	104	44-140%	---	---	
N-Nitrosodimethylamine	782	---	25.0	"	"	"	---	98	23-120%	---	---	
N-Nitroso-di-n-propylamine	966	---	25.0	"	"	"	---	121	36-120%	---	---	Q-29, Q-41
N-Nitrosodiphenylamine	798	---	25.0	"	"	"	---	100	38-127%	---	---	
Bis(2-Chloroethoxy) methane	863	---	25.0	"	"	"	---	108	36-121%	---	---	
Bis(2-Chloroethyl) ether	843	---	25.0	"	"	"	---	105	31-120%	---	---	
Bis(2-Chloroisopropyl) ether	1060	---	25.0	"	"	"	---	132	33-131%	---	---	Q-29, Q-41
Hexachlorobenzene	959	---	10.0	"	"	"	---	120	44-122%	---	---	
Hexachlorobutadiene	936	---	25.0	"	"	"	---	117	32-123%	---	---	
Hexachlorocyclopentadiene	1120	---	49.9	"	"	"	---	140	5-140%	---	---	Q-41
Hexachloroethane	912	---	25.0	"	"	"	---	114	28-120%	---	---	
2-Chloronaphthalene	835	---	10.0	"	"	"	---	104	41-120%	---	---	
1,2-Dichlorobenzene	822	---	25.0	"	"	"	---	103	33-120%	---	---	
1,3-Dichlorobenzene	814	---	25.0	"	"	"	---	102	30-120%	---	---	
1,4-Dichlorobenzene	821	---	25.0	"	"	"	---	103	31-120%	---	---	
1,2,4-Trichlorobenzene	802	---	25.0	"	"	"	---	100	34-120%	---	---	
4-Bromophenyl phenyl ether	950	---	25.0	"	"	"	---	119	46-124%	---	---	
4-Chlorophenyl phenyl ether	870	---	25.0	"	"	"	---	109	45-121%	---	---	
Aniline	686	---	49.9	"	"	"	---	86	7-120%	---	---	

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070632 - EPA 3546						Soil						
LCS (5070632-BS1)						Prepared: 07/23/15 12:06 Analyzed: 07/23/15 17:16						
4-Chloroaniline	479	---	25.0	ug/kg wet	"	"	---	60	16-120%	---	---	
2-Nitroaniline	762	---	200	"	"	"	---	95	44-127%	---	---	
3-Nitroaniline	606	---	200	"	"	"	---	76	33-120%	---	---	
4-Nitroaniline	759	---	200	"	"	"	---	95	35-120%	---	---	
Nitrobenzene	997	---	100	"	"	"	---	125	34-122%	---	---	Q-29, Q-41
2,4-Dinitrotoluene	865	---	100	"	"	"	---	108	48-126%	---	---	
2,6-Dinitrotoluene	903	---	100	"	"	"	---	113	46-124%	---	---	
Benzoic acid	ND	---	1250	"	"	1600	---	60	5-140%	---	---	
Benzyl alcohol	815	---	49.9	"	"	800	---	102	29-122%	---	---	
Isophorone	978	---	25.0	"	"	"	---	122	30-122%	---	---	Q-41
Azobenzene (1,2-DPH)	933	---	25.0	"	"	"	---	117	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	856	---	250	"	"	"	---	107	60-121%	---	---	
3,3'-Dichlorobenzidine	1270	---	100	"	"	1600	---	80	22-121%	---	---	
1,2-Dinitrobenzene	825	---	250	"	"	800	---	103	44-120%	---	---	
1,3-Dinitrobenzene	829	---	250	"	"	"	---	104	42-127%	---	---	
1,4-Dinitrobenzene	914	---	250	"	"	"	---	114	37-132%	---	---	
Pyridine	716	---	49.9	"	"	"	---	90	5-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>												
			Recovery:	108 %	Limits:	37-122 %	Dilution:	1x				
<i>2-Fluorobiphenyl (Surr)</i>				95 %		44-115 %		"				
<i>Phenol-d6 (Surr)</i>				94 %		33-122 %		"				
<i>p-Terphenyl-d14 (Surr)</i>				122 %		54-127 %		"				
<i>2-Fluorophenol (Surr)</i>				99 %		35-115 %		"				
<i>2,4,6-Tribromophenol (Surr)</i>				116 %		39-132 %		"				
												Q-41

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: **Storedahl-Evraz**
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070663 - EPA 3051A						Soil						
Blank (5070663-BLK1)						Prepared: 07/24/15 08:48 Analyzed: 07/28/15 10:52						
EPA 6020A												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	"	"	---	---	---	---	---	---	
Chromium	ND	---	1.00	"	"	---	---	---	---	---	---	
Copper	ND	---	1.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Manganese	ND	---	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	---	0.160	"	"	---	---	---	---	---	---	
Zinc	ND	---	4.00	"	"	---	---	---	---	---	---	
LCS (5070663-BS1)						Prepared: 07/24/15 08:48 Analyzed: 07/28/15 10:55						
EPA 6020A												
Arsenic	56.0	---	1.00	mg/kg wet	10	50.0	---	112	80-120%	---	---	
Cadmium	54.3	---	0.200	"	"	"	---	109	"	---	---	
Chromium	52.6	---	1.00	"	"	"	---	105	"	---	---	
Copper	52.3	---	1.00	"	"	"	---	105	"	---	---	
Lead	53.8	---	1.00	"	"	"	---	108	"	---	---	
Manganese	53.5	---	1.00	"	"	"	---	107	"	---	---	
Mercury	1.07	---	0.160	"	"	1.00	---	107	"	---	---	
Zinc	58.9	---	4.00	"	"	50.0	---	118	"	---	---	
Duplicate (5070663-DUP1)						Prepared: 07/24/15 08:48 Analyzed: 07/28/15 11:04						
QC Source Sample: Owl Creek BF (A5G0664-01)												
EPA 6020A												
Arsenic	ND	---	1.04	mg/kg dry	10	---	0.617	---	---	***	40%	
Cadmium	ND	---	0.209	"	"	---	0.103	---	---	***	40%	
Chromium	3.31	---	1.04	"	"	---	3.88	---	---	16	40%	
Copper	11.7	---	1.04	"	"	---	11.7	---	---	0.6	40%	
Lead	ND	---	1.04	"	"	---	0.586	---	---	***	40%	
Manganese	147	---	1.04	"	"	---	145	---	---	2	40%	
Mercury	ND	---	0.167	"	"	---	ND	---	---	---	40%	
Zinc	15.6	---	4.17	"	"	---	17.1	---	---	9	40%	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070663 - EPA 3051A						Soil						
Matrix Spike (5070663-MS1)						Prepared: 07/24/15 08:48 Analyzed: 07/28/15 11:06						
QC Source Sample: Owl Creek BF (A5G0664-01)												
EPA 6020A												
Arsenic	58.9	---	1.04	mg/kg dry	10	52.2	0.617	112	75-125%	---	---	Q-03
Cadmium	57.0	---	0.209	"	"	"	0.103	109	"	---	---	
Chromium	57.5	---	1.04	"	"	"	3.88	103	"	---	---	
Copper	64.7	---	1.04	"	"	"	11.7	102	"	---	---	
Lead	55.6	---	1.04	"	"	"	0.586	105	"	---	---	
Manganese	180	---	1.04	"	"	"	145	67	"	---	---	
Mercury	1.05	---	0.167	"	"	1.04	ND	101	"	---	---	
Zinc	73.8	---	4.17	"	"	52.2	17.1	109	"	---	---	

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Darrell Auvil For Darwin Thomas, Business Development Director

Page 21 of 25

Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz

Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	--------------------	-------	------	-----------------	------------------	------	----------------	-----	--------------	-------

Batch 5070634 - Total Solids (Dry Weight)

Soil

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
08/27/15 11:56

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070631							
A5G0664-01	Soil	EPA 8082A	07/23/15 15:00	07/23/15 18:46	10.12g/5mL	10g/5mL	0.99

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070615							
A5G0664-01	Soil	EPA 8081B	07/23/15 15:00	07/23/15 18:45	10.12g/5mL	10g/5mL	0.99

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070632							
A5G0664-01	Soil	EPA 8270D	07/23/15 15:00	07/23/15 18:41	10.12g/5mL	15g/2mL	3.71

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070663							
A5G0664-01	Soil	EPA 6020A	07/23/15 15:00	07/24/15 08:48	0.49g/50mL	0.5g/50mL	1.02

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070634							
A5G0664-01	Soil	EPA 8000C	07/23/15 15:00	07/23/15 20:05	1N/A/1N/A	1N/A/1N/A	NA

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Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**

Project Number: 100
Project Manager: Terry Rice

Reported:
08/27/15 11:56

Notes and Definitions

Qualifiers:

- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Darrell Auvil For Darwin Thomas, Business Development Director

AMENDED REPORT

503-718-0333 Fax

Project: **Storedahl-Evraz**

Project Number: 100
Project Manager: Terry Rice

Reported:
08/27/15 11:56

CHAIN OF CUSTODY

Lab # A5g0664 COC 1 of 1

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

[illegible]

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Donald C. Smith

Page 25 of 25

Pacific Testing & Inspection LLC

2417 Harrison Avenue, Centralia, WA 98531

Phone (360) 736-3922 Fax (360) 807-6022

(b) (4)



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Comments:

Reviewed by: Tim Barney

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Pacific Testing & Inspection LLC

2417 Harrison Avenue, Centralia, WA 98531
Phone (360) 736-3922 Fax (360) 807-6022

(b) (4)



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Comments: _____

Reviewed by: Tim Barney

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Pacific Testing & Inspection LLC

2417 Harrison Avenue, Centralia, WA 98531

Phone (360) 736-3922 Fax (360) 807-6002

ASTM D-2419 Sand Equivalent Value of Soils and Fine Aggregate

(b) (4)



Reviewed By: Tim Barney

All results apply only to actual locations and materials tested. As a mutual protection to customers, the public and ourselves, all reports are submitted as the confidential property of customers, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

CITY OF PORTLAND BES MIX

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Monday, September 14, 2015

Nathan Cutler
Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

RE: Evraz - Oregon Steel / [none]

Enclosed are the results of analyses for work order A5H0142, which was received by the laboratory on 8/6/2015 at 12:45:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S+H-PortMix-Tual	A5H0142-01	Soil	08/06/15 12:00	08/06/15 12:45

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
S+H-PortMix-Tual (A5H0142-01)			Matrix: Soil		Batch: 5080150			C-07
Aroclor 1016	ND	5.78	11.6	ug/kg dry	1	08/10/15 16:41	EPA 8082A	
Aroclor 1221	ND	5.78	11.6	"	"	"	"	
Aroclor 1232	ND	5.78	11.6	"	"	"	"	
Aroclor 1242	ND	5.78	11.6	"	"	"	"	
Aroclor 1248	ND	5.78	11.6	"	"	"	"	
Aroclor 1254	ND	5.78	11.6	"	"	"	"	
Aroclor 1260	ND	5.78	11.6	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 87 %</i>	<i>Limits: 72-126 %</i>	"	"	"	

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Darrell Auil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
S+H-PortMix-Tual (A5H0142-01RE1)			Matrix: Soil		Batch: 5080223			C-05
Aldrin	ND	---	2.25	ug/kg dry	1	08/11/15 12:13	EPA 8081B	
alpha-BHC	ND	---	2.25	"	"	"	"	
beta-BHC	ND	---	2.25	"	"	"	"	
delta-BHC	ND	---	2.25	"	"	"	"	
gamma-BHC (Lindane)	ND	---	2.25	"	"	"	"	
cis-Chlordane	ND	---	2.25	"	"	"	"	
trans-Chlordane	ND	---	2.25	"	"	"	"	
4,4'-DDD	ND	---	2.25	"	"	"	"	
4,4'-DDE	ND	---	2.25	"	"	"	"	
4,4'-DDT	ND	---	2.25	"	"	"	"	
Dieldrin	ND	---	2.25	"	"	"	"	
Endosulfan I	ND	---	2.25	"	"	"	"	
Endosulfan II	ND	---	2.25	"	"	"	"	
Endosulfan sulfate	ND	---	2.25	"	"	"	"	
Endrin	ND	---	2.25	"	"	"	"	
Endrin Aldehyde	ND	---	2.25	"	"	"	"	
Endrin ketone	ND	---	2.25	"	"	"	"	
Heptachlor	ND	---	2.25	"	"	"	"	
Heptachlor epoxide	ND	---	2.25	"	"	"	"	
Methoxychlor	ND	---	6.74	"	"	"	"	
Chlordane (Technical)	ND	---	67.4	"	"	"	"	
Toxaphene (Total)	ND	---	67.4	"	"	"	"	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>			<i>Recovery: 66 %</i>	<i>Limits: 42-129 %</i>	"	"	"	
<i>Decachlorobiphenyl (Surr)</i>			<i>110 %</i>	<i>Limits: 65-151 %</i>	"	"	"	

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
S+H-PortMix-Tual (A5H0142-01RE2)			Matrix: Soil		Batch: 5080209			
Acenaphthene	ND	---	266	ug/kg dry	1	08/10/15 16:25	EPA 8270D	
Acenaphthylene	ND	---	266	"	"	"	"	
Aniline	ND	---	266	"	"	"	"	
Anthracene	ND	---	266	"	"	"	"	
Azobenzene (1,2-DPH)	ND	---	266	"	"	"	"	
Benz(a)anthracene	ND	---	266	"	"	"	"	
Benzo(a)pyrene	ND	---	266	"	"	"	"	
Benzo(b)fluoranthene	ND	---	266	"	"	"	"	
Benzo(k)fluoranthene	ND	---	266	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	266	"	"	"	"	
Benzoic acid	ND	---	1330	"	"	"	"	
Benzyl alcohol	ND	---	266	"	"	"	"	
Bis(2-Chloroethoxy) methane	ND	---	266	"	"	"	"	
Bis(2-Chloroethyl) ether	ND	---	266	"	"	"	"	Q-42
Bis(2-Chloroisopropyl) ether	ND	---	266	"	"	"	"	
Bis(2-Ethylhexyl) adipate	ND	---	266	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	---	266	"	"	"	"	
4-Bromophenyl phenyl ether	ND	---	266	"	"	"	"	
Butyl benzyl phthalate	ND	---	266	"	"	"	"	
Carbazole	ND	---	266	"	"	"	"	
4-Chloroaniline	ND	---	266	"	"	"	"	
4-Chloro-3-methylphenol	ND	---	266	"	"	"	"	
2-Chloronaphthalene	ND	---	266	"	"	"	"	
2-Chlorophenol	ND	---	266	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	---	266	"	"	"	"	
Chrysene	ND	---	266	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	266	"	"	"	"	
Dibenzofuran	ND	---	266	"	"	"	"	
1,2-Dichlorobenzene	ND	---	266	"	"	"	"	
1,3-Dichlorobenzene	ND	---	266	"	"	"	"	
1,4-Dichlorobenzene	ND	---	266	"	"	"	"	
2,4-Dichlorophenol	ND	---	266	"	"	"	"	
Di-n-butylphthalate	ND	---	266	"	"	"	"	
Diethylphthalate	ND	---	266	"	"	"	"	
Dimethylphthalate	ND	---	266	"	"	"	"	

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
S+H-PortMix-Tual (A5H0142-01RE2)			Matrix: Soil		Batch: 5080209			
2,4-Dimethylphenol	ND	---	266	ug/kg dry	1	"	EPA 8270D	
1,2-Dinitrobenzene	ND	---	266	"	"	"	"	
1,3-Dinitrobenzene	ND	---	266	"	"	"	"	
1,4-Dinitrobenzene	ND	---	266	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	---	638	"	"	"	"	
2,4-Dinitrophenol	ND	---	266	"	"	"	"	
2,4-Dinitrotoluene	ND	---	266	"	"	"	"	
2,6-Dinitrotoluene	ND	---	266	"	"	"	"	
Di-n-octyl phthalate	ND	---	266	"	"	"	"	
Fluoranthene	ND	---	266	"	"	"	"	
Fluorene	ND	---	266	"	"	"	"	
Hexachlorobenzene	ND	---	266	"	"	"	"	
Hexachlorobutadiene	ND	---	266	"	"	"	"	
Hexachlorocyclopentadiene	ND	---	266	"	"	"	"	
Hexachloroethane	ND	---	266	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	266	"	"	"	"	
Isophorone	ND	---	266	"	"	"	"	
1-Methylnaphthalene	ND	---	266	"	"	"	"	
2-Methylnaphthalene	ND	---	266	"	"	"	"	
2-Methylphenol	ND	---	266	"	"	"	"	
3+4-Methylphenol(s)	ND	---	266	"	"	"	"	
Naphthalene	ND	---	266	"	"	"	"	
2-Nitroaniline	ND	---	266	"	"	"	"	
3-Nitroaniline	ND	---	266	"	"	"	"	
4-Nitroaniline	ND	---	266	"	"	"	"	
Nitrobenzene	ND	---	266	"	"	"	"	
2-Nitrophenol	ND	---	266	"	"	"	"	
4-Nitrophenol	ND	---	266	"	"	"	"	
N-Nitrosodimethylamine	ND	---	266	"	"	"	"	
N-Nitroso-di-n-propylamine	ND	---	266	"	"	"	"	
N-Nitrosodiphenylamine	ND	---	266	"	"	"	"	
Pentachlorophenol (PCP)	ND	---	266	"	"	"	"	
Phenanthrene	ND	---	266	"	"	"	"	
Phenol	ND	---	266	"	"	"	"	
Pyrene	ND	---	266	"	"	"	"	

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
S+H-PortMix-Tual (A5H0142-01RE2)			Matrix: Soil		Batch: 5080209			
Pyridine	ND	---	531	ug/kg dry	1	"	EPA 8270D	
2,3,4,6-Tetrachlorophenol	ND	---	266	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	---	266	"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	266	"	"	"	"	
2,4,5-Trichlorophenol	ND	---	266	"	"	"	"	
2,4,6-Trichlorophenol	ND	---	266	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 93 %</i>	<i>Limits: 37-122 %</i>	"	"	"	
<i>2-Fluorobiphenyl (Surr)</i>			<i>85 %</i>	<i>Limits: 44-115 %</i>	"	"	"	
<i>Phenol-d6 (Surr)</i>			<i>83 %</i>	<i>Limits: 33-122 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>97 %</i>	<i>Limits: 54-127 %</i>	"	"	"	<i>Q-41</i>
<i>2-Fluorophenol (Surr)</i>			<i>84 %</i>	<i>Limits: 35-115 %</i>	"	"	"	
<i>2,4,6-Tribromophenol (Surr)</i>			<i>129 %</i>	<i>Limits: 39-132 %</i>	"	"	"	<i>Q-41</i>

Apex Laboratories



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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
S+H-PortMix-Tual (A5H0142-01)			Matrix: Soil					
Batch: 5080143								
Arsenic	ND	---	1.23	mg/kg dry	10	08/06/15 21:14	EPA 6020A	
Cadmium	ND	---	0.246	"	"	"	"	
Chromium	8.65	---	1.23	"	"	"	"	
Lead	4.68	---	2.46	"	"	"	"	
Manganese	265	---	2.46	"	"	"	"	
Mercury	ND	---	0.0983	"	"	"	"	
Zinc	35.3	---	4.91	"	"	"	"	
S+H-PortMix-Tual (A5H0142-01RE1)			Matrix: Soil					
Batch: 5080143								
Copper	19.1	---	4.91	mg/kg dry	10	08/07/15 13:21	EPA 6020A	

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
S+H-PortMix-Tual (A5H0142-01)			Matrix: Soil		Batch: 5080163			
% Solids	82.9	---	1.00	% by Weight	1	08/10/15 08:27	EPA 8000C	

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Darrell Auil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080150 - EPA 3546						Soil						
Blank (5080150-BLK1)						Prepared: 08/07/15 07:18		Analyzed: 08/10/15 15:28		C-07		
EPA 8082A												
Aroclor 1016	ND	4.17	8.33	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 97 %		Limits: 72-126 %		Dilution: 1x						
LCS (5080150-BS1)						Prepared: 08/07/15 07:18		Analyzed: 08/10/15 15:46		C-07		
EPA 8082A												
Aroclor 1016	164	5.00	10.0	ug/kg wet	1	250	---	66	47-134%	---	---	
Aroclor 1260	236	5.00	10.0	"	"	"	---	95	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 99 %		Limits: 72-126 %		Dilution: 1x						
Matrix Spike (5080150-MS1)						Prepared: 08/07/15 07:18		Analyzed: 08/10/15 17:19		C-07		
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
EPA 8082A												
Aroclor 1016	198	5.86	11.7	ug/kg dry	1	293	ND	68	47-134%	---	---	
Aroclor 1260	276	5.86	11.7	"	"	"	ND	94	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 95 %		Limits: 72-126 %		Dilution: 1x						

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080223 - EPA 3546/3640A (GPC)						Soil						
Blank (5080223-BLK1)				Prepared: 08/07/15 07:20				Analyzed: 08/11/15 11:36				C-05
EPA 8081B												
Aldrin	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	---	1.82	"	"	---	---	---	---	---	---	
beta-BHC	ND	---	1.82	"	"	---	---	---	---	---	---	
delta-BHC	ND	---	1.82	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	---	1.82	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	---	1.82	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	---	1.82	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	---	1.82	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	---	1.82	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	---	1.82	"	"	---	---	---	---	---	---	
Dieldrin	ND	---	1.82	"	"	---	---	---	---	---	---	
Endosulfan I	ND	---	1.82	"	"	---	---	---	---	---	---	
Endosulfan II	ND	---	1.82	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	---	1.82	"	"	---	---	---	---	---	---	
Endrin	ND	---	1.82	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	---	1.82	"	"	---	---	---	---	---	---	
Endrin ketone	ND	---	1.82	"	"	---	---	---	---	---	---	
Heptachlor	ND	---	1.82	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	---	1.82	"	"	---	---	---	---	---	---	
Methoxychlor	ND	---	5.45	"	"	---	---	---	---	---	---	
Chlordane (Technical)	ND	---	54.5	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	---	54.5	"	"	---	---	---	---	---	---	

Surr: 2,4,5,6-TCMX (Surr)

Recovery: 85 %

Limits: 42-129 %

Dilution: 1x

Decachlorobiphenyl (Surr)

98 %

65-151 %

"

LCS (5080223-BS1)

Prepared: 08/07/15 07:20 Analyzed: 08/11/15 11:54

C-05

EPA 8081B												
Aldrin	38.5	---	2.00	ug/kg wet	1	50.0	---	77	45-136%	---	---	
alpha-BHC	42.1	---	2.00	"	"	"	---	84	45-137%	---	---	
beta-BHC	41.9	---	2.00	"	"	"	---	84	50-136%	---	---	
delta-BHC	42.4	---	2.00	"	"	"	---	85	47-139%	---	---	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080223 - EPA 3546/3640A (GPC)							Soil					
LCS (5080223-BS1)				Prepared: 08/07/15 07:20		Analyzed: 08/11/15 11:54					C-05	
gamma-BHC (Lindane)	42.4	---	2.00	"	"	"	---	85	49-135%	---	---	Q-41
cis-Chlordane	40.4	---	2.00	"	"	"	---	81	54-133%	---	---	
trans-Chlordane	40.7	---	2.00	"	"	"	---	81	53-135%	---	---	
4,4'-DDD	45.2	---	2.00	"	"	"	---	90	56-139%	---	---	
4,4'-DDE	40.8	---	2.00	"	"	"	---	82	56-134%	---	---	
4,4'-DDT	49.8	---	2.00	"	"	"	---	100	50-141%	---	---	
Dieldrin	42.7	---	2.00	"	"	"	---	85	56-136%	---	---	
Endosulfan I	41.9	---	2.00	"	"	"	---	84	52-132%	---	---	
Endosulfan II	43.4	---	2.00	"	"	"	---	87	53-134%	---	---	
Endosulfan sulfate	44.2	---	2.00	"	"	"	---	88	55-136%	---	---	
Endrin	48.9	---	2.00	"	"	"	---	98	56-140%	---	---	
Endrin Aldehyde	41.3	---	2.00	"	"	"	---	83	35-137%	---	---	
Endrin ketone	47.1	---	2.00	"	"	"	---	94	55-136%	---	---	
Heptachlor	41.8	---	2.00	"	"	"	---	84	47-136%	---	---	
Heptachlor epoxide	42.1	---	2.00	"	"	"	---	84	52-136%	---	---	
Methoxychlor	50.9	---	6.00	"	"	"	---	102	52-143%	---	---	

Surr: 2,4,5,6-TCMX (Surr)

Recovery: 73 %

Limits: 42-129 %

Dilution: 1x

Decachlorobiphenyl (Surr)

93 %

65-151 %

"

Duplicate (5080223-DUP1)

Prepared: 08/07/15 07:20 Analyzed: 08/11/15 12:31

C-05

QC Source Sample: S+H-PortMix-Tual (A5H0142-01RE1)

EPA 8081B

Aldrin	ND	---	2.26	ug/kg dry	1	---	ND	---	---	---	30%
alpha-BHC	ND	---	2.26	"	"	---	ND	---	---	---	30%
beta-BHC	ND	---	2.26	"	"	---	ND	---	---	---	30%
delta-BHC	ND	---	2.26	"	"	---	ND	---	---	---	30%
gamma-BHC (Lindane)	ND	---	2.26	"	"	---	ND	---	---	---	30%
cis-Chlordane	ND	---	2.26	"	"	---	ND	---	---	---	30%
trans-Chlordane	ND	---	2.26	"	"	---	ND	---	---	---	30%
4,4'-DDD	ND	---	2.26	"	"	---	ND	---	---	---	30%
4,4'-DDE	ND	---	2.26	"	"	---	ND	---	---	---	30%
4,4'-DDT	ND	---	2.26	"	"	---	ND	---	---	---	30%

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080223 - EPA 3546/3640A (GPC)						Soil						
Duplicate (5080223-DUP1)				Prepared: 08/07/15 07:20		Analyzed: 08/11/15 12:31					C-05	
QC Source Sample: S+H-PortMix-Tual (A5H0142-01RE1)												
Dieldrin	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Endosulfan I	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Endosulfan II	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Endrin	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Endrin Aldehyde	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Endrin ketone	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Heptachlor	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Heptachlor epoxide	ND	---	2.26	"	"	---	ND	---	---	---	30%	
Methoxychlor	ND	---	6.79	"	"	---	ND	---	---	---	30%	
Chlordane (Technical)	ND	---	67.9	"	"	---	ND	---	---	---	30%	
Toxaphene (Total)	ND	---	67.9	"	"	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 72 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		106 %		65-151 %		"						

Matrix Spike (5080223-MS1)					Prepared: 08/07/15 07:20		Analyzed: 08/11/15 12:50		C-05		
QC Source Sample: S+H-PortMix-Tual (A5H0142-01RE1)											
EPA 8081B											
Aldrin	54.6	---	2.27	ug/kg dry	1	56.7	ND	96	45-136%	---	---
alpha-BHC	56.4	---	2.27	"	"	"	ND	99	45-137%	---	---
beta-BHC	66.7	---	2.27	"	"	"	ND	118	50-136%	---	---
delta-BHC	68.0	---	2.27	"	"	"	ND	120	47-139%	---	---
gamma-BHC (Lindane)	60.4	---	2.27	"	"	"	ND	106	49-135%	---	---
cis-Chlordane	65.4	---	2.27	"	"	"	ND	115	54-133%	---	---
trans-Chlordane	45.5	---	2.27	"	"	"	ND	80	53-135%	---	---
4,4'-DDD	76.6	---	2.27	"	"	"	ND	135	56-139%	---	---
4,4'-DDE	66.9	---	2.27	"	"	"	ND	118	56-134%	---	---
4,4'-DDT	74.5	---	2.27	"	"	"	ND	131	50-141%	---	---
Dieldrin	52.3	---	2.27	"	"	"	ND	92	56-136%	---	---
Endosulfan I	63.5	---	2.27	"	"	"	ND	112	52-132%	---	---

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080223 - EPA 3546/3640A (GPC)							Soil					
Matrix Spike (5080223-MS1)				Prepared: 08/07/15 07:20		Analyzed: 08/11/15 12:50					C-05	
QC Source Sample: S+H-PortMix-Tual (A5H0142-01RE1)												
Endosulfan II	68.9	---	2.27	ug/kg dry	"	"	ND	121	53-134%	---	---	
Endosulfan sulfate	53.3	---	2.27	"	"	"	ND	94	55-136%	---	---	
Endrin	63.9	---	2.27	"	"	"	ND	113	56-140%	---	---	
Endrin Aldehyde	55.6	---	2.27	"	"	"	ND	98	35-137%	---	---	
Endrin ketone	62.9	---	2.27	"	"	"	ND	111	55-136%	---	---	
Heptachlor	64.2	---	2.27	"	"	"	ND	113	47-136%	---	---	
Heptachlor epoxide	65.9	---	2.27	"	"	"	ND	116	52-136%	---	---	
Methoxychlor	89.9	---	6.81	"	"	"	ND	158	52-143%	---	---	Q-01
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 77 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		115 %		65-151 %		"						

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
Blank (5080209-BLK2)				Prepared: 08/10/15 10:21		Analyzed: 08/10/15 13:51						
EPA 8270D												
Acenaphthene	ND	---	208	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	208	"	"	---	---	---	---	---	---	
Aniline	ND	---	208	"	"	---	---	---	---	---	---	
Anthracene	ND	---	208	"	"	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	---	208	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	208	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	208	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	208	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	208	"	"	---	---	---	---	---	---	
Benzo(b+k)fluoranthene(s)	ND	---	417	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	208	"	"	---	---	---	---	---	---	
Benzoic acid	ND	---	1040	"	"	---	---	---	---	---	---	
Benzyl alcohol	ND	---	208	"	"	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	208	"	"	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	208	"	"	---	---	---	---	---	---	
Bis(2-Chloroisopropyl) ether	ND	---	208	"	"	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	208	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	208	"	"	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	208	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	208	"	"	---	---	---	---	---	---	
Carbazole	ND	---	208	"	"	---	---	---	---	---	---	
4-Chloroaniline	ND	---	208	"	"	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	208	"	"	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	208	"	"	---	---	---	---	---	---	
2-Chlorophenol	ND	---	208	"	"	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	208	"	"	---	---	---	---	---	---	
Chrysene	ND	---	208	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	208	"	"	---	---	---	---	---	---	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
Blank (5080209-BLK2)						Prepared: 08/10/15 10:21 Analyzed: 08/10/15 13:51						
Dibenzofuran	ND	---	208	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	208	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	208	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	208	"	"	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	208	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	208	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	---	208	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	---	208	"	"	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	208	"	"	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	---	208	"	"	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	208	"	"	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	208	"	"	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	500	"	"	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	208	"	"	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	208	"	"	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	208	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	208	"	"	---	---	---	---	---	---	
Fluoranthene	ND	---	208	"	"	---	---	---	---	---	---	
Fluorene	ND	---	208	"	"	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	208	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	208	"	"	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	208	"	"	---	---	---	---	---	---	
Hexachloroethane	ND	---	208	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	208	"	"	---	---	---	---	---	---	
Isophorone	ND	---	208	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	208	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	208	"	"	---	---	---	---	---	---	
2-Methylphenol	ND	---	208	"	"	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	208	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	208	"	"	---	---	---	---	---	---	
2-Nitroaniline	ND	---	208	"	"	---	---	---	---	---	---	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
Blank (5080209-BLK2)						Prepared: 08/10/15 10:21 Analyzed: 08/10/15 13:51						
3-Nitroaniline	ND	---	208	ug/kg wet	"	---	---	---	---	---	---	
4-Nitroaniline	ND	---	208	"	"	---	---	---	---	---	---	
Nitrobenzene	ND	---	208	"	"	---	---	---	---	---	---	
2-Nitrophenol	ND	---	208	"	"	---	---	---	---	---	---	
4-Nitrophenol	ND	---	208	"	"	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	208	"	"	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	208	"	"	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	208	"	"	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	208	"	"	---	---	---	---	---	---	
Phenanthrene	ND	---	208	"	"	---	---	---	---	---	---	
Phenol	ND	---	208	"	"	---	---	---	---	---	---	
Pyrene	ND	---	208	"	"	---	---	---	---	---	---	
Pyridine	ND	---	417	"	"	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	208	"	"	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	---	208	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	208	"	"	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	208	"	"	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	208	"	"	---	---	---	---	---	---	

<i>Surr:</i> Nitrobenzene-d5 (<i>Surr</i>)	<i>Recovery:</i> 101 %	<i>Limits:</i> 37-122 %	<i>Dilution:</i> 1x	
2-Fluorobiphenyl (<i>Surr</i>)	92 %	44-115 %	"	
Phenol-d6 (<i>Surr</i>)	84 %	33-122 %	"	
p-Terphenyl-d14 (<i>Surr</i>)	106 %	54-127 %	"	Q-41
2-Fluorophenol (<i>Surr</i>)	88 %	35-115 %	"	
2,4,6-Tribromophenol (<i>Surr</i>)	100 %	39-132 %	"	Q-41

LCS (5080209-BS2)

Prepared: 08/10/15 10:21 Analyzed: 08/10/15 14:30

EPA 8270D

Acenaphthene	729	---	250	ug/kg wet	1	800	---	91	40-122%	---	---
Acenaphthylene	734	---	250	"	"	"	---	92	32-132%	---	---
Aniline	618	---	250	"	"	"	---	77	7-120%	---	---
Anthracene	765	---	250	"	"	"	---	96	47-123%	---	---
Azobenzene (1,2-DPH)	761	---	250	"	"	"	---	95	39-125%	---	---

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
LCS (5080209-BS2)						Prepared: 08/10/15 10:21 Analyzed: 08/10/15 14:30						
Benz(a)anthracene	750	---	250	ug/kg wet	"	"	---	94	49-126%	---	---	
Benzo(a)pyrene	779	---	250	"	"	"	---	97	45-129%	---	---	
Benzo(b)fluoranthene	770	---	250	"	"	"	---	96	45-132%	---	---	
Benzo(k)fluoranthene	749	---	250	"	"	"	---	94	47-132%	---	---	
Benzo(b+k)fluoranthene(s)	1540	---	500	"	"	1600	---	96	45-132%	---	---	
Benzo(g,h,i)perylene	747	---	250	"	"	800	---	93	43-134%	---	---	
Benzoic acid	ND	---	1250	"	"	1600	---	32	5-140%	---	---	
Benzyl alcohol	729	---	250	"	"	800	---	91	29-122%	---	---	
Bis(2-Chloroethoxy) methane	748	---	250	"	"	"	---	94	36-121%	---	---	
Bis(2-Chloroethyl) ether	709	---	250	"	"	"	---	89	31-120%	---	---	
Bis(2-Chloroisopropyl) ether	843	---	250	"	"	"	---	105	33-131%	---	---	Q-41
Bis(2-Ethylhexyl) adipate	725	---	250	"	"	"	---	91	60-121%	---	---	
Bis(2-ethylhexyl)phthalate	742	---	250	"	"	"	---	93	51-133%	---	---	
4-Bromophenyl phenyl ether	848	---	250	"	"	"	---	106	46-124%	---	---	Q-41
Butyl benzyl phthalate	757	---	250	"	"	"	---	95	48-132%	---	---	
Carbazole	745	---	250	"	"	"	---	93	50-122%	---	---	
4-Chloroaniline	459	---	250	"	"	"	---	57	16-120%	---	---	
4-Chloro-3-methylphenol	730	---	250	"	"	"	---	91	45-122%	---	---	
2-Chloronaphthalene	719	---	250	"	"	"	---	90	41-120%	---	---	
2-Chlorophenol	735	---	250	"	"	"	---	92	34-121%	---	---	
4-Chlorophenyl phenyl ether	716	---	250	"	"	"	---	89	45-121%	---	---	
Chrysene	716	---	250	"	"	"	---	90	50-124%	---	---	
Dibenz(a,h)anthracene	722	---	250	"	"	"	---	90	45-134%	---	---	
Dibenzofuran	702	---	250	"	"	"	---	88	44-120%	---	---	
1,2-Dichlorobenzene	679	---	250	"	"	"	---	85	33-120%	---	---	
1,3-Dichlorobenzene	686	---	250	"	"	"	---	86	30-120%	---	---	
1,4-Dichlorobenzene	691	---	250	"	"	"	---	86	31-120%	---	---	
2,4-Dichlorophenol	749	---	250	"	"	"	---	94	40-122%	---	---	
Di-n-butylphthalate	818	---	250	"	"	"	---	102	51-128%	---	---	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
LCS (5080209-BS2)						Prepared: 08/10/15 10:21 Analyzed: 08/10/15 14:30						
Diethylphthalate	755	---	250	"	"	"	---	94	50-124%	---	---	Q-41
Dimethylphthalate	742	---	250	"	"	"	---	93	48-124%	---	---	
2,4-Dimethylphenol	842	---	250	"	"	"	---	105	30-127%	---	---	
1,2-Dinitrobenzene	699	---	250	"	"	"	---	87	44-120%	---	---	
1,3-Dinitrobenzene	695	---	250	"	"	"	---	87	42-127%	---	---	Q-41
1,4-Dinitrobenzene	749	---	250	"	"	"	---	94	37-132%	---	---	
4,6-Dinitro-2-methylphenol	663	---	600	"	"	"	---	83	29-132%	---	---	
2,4-Dinitrophenol	586	---	250	"	"	"	---	73	5-137%	---	---	
2,4-Dinitrotoluene	699	---	250	"	"	"	---	87	48-126%	---	---	Q-41
2,6-Dinitrotoluene	759	---	250	"	"	"	---	95	46-124%	---	---	
Di-n-octyl phthalate	700	---	250	"	"	"	---	87	44-140%	---	---	
Fluoranthene	769	---	250	"	"	"	---	96	50-127%	---	---	
Fluorene	703	---	250	"	"	"	---	88	43-125%	---	---	Q-41
Hexachlorobenzene	862	---	250	"	"	"	---	108	44-122%	---	---	
Hexachlorobutadiene	808	---	250	"	"	"	---	101	32-123%	---	---	
Hexachlorocyclopentadiene	975	---	250	"	"	"	---	122	5-140%	---	---	
Hexachloroethane	730	---	250	"	"	"	---	91	28-120%	---	---	Q-41
Indeno(1,2,3-cd)pyrene	679	---	250	"	"	"	---	85	45-133%	---	---	
Isophorone	828	---	250	"	"	"	---	104	30-122%	---	---	
1-Methylnaphthalene	719	---	250	"	"	"	---	90	40-120%	---	---	
2-Methylnaphthalene	733	---	250	"	"	"	---	92	38-122%	---	---	Q-41
2-Methylphenol	752	---	250	"	"	"	---	94	32-122%	---	---	
3+4-Methylphenol(s)	752	---	250	"	"	"	---	94	34-120%	---	---	
Naphthalene	697	---	250	"	"	"	---	87	35-123%	---	---	
2-Nitroaniline	673	---	250	"	"	"	---	84	44-127%	---	---	Q-41
3-Nitroaniline	490	---	250	"	"	"	---	61	33-120%	---	---	
4-Nitroaniline	635	---	250	"	"	"	---	79	35-120%	---	---	
Nitrobenzene	785	---	250	"	"	"	---	98	34-122%	---	---	
2-Nitrophenol	748	---	250	"	"	"	---	93	36-123%	---	---	Q-41
4-Nitrophenol	646	---	250	"	"	"	---	81	30-132%	---	---	
N-Nitrosodimethylamine	937	---	250	"	"	"	---	117	23-120%	---	---	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
LCS (5080209-BS2)						Prepared: 08/10/15 10:21 Analyzed: 08/10/15 14:30						
N-Nitroso-di-n-propylamine	840	---	250	ug/kg wet	"	"	---	105	36-120%	---	---	Q-41
N-Nitrosodiphenylamine	714	---	250	"	"	"	---	89	38-127%	---	---	
Pentachlorophenol (PCP)	723	---	250	"	"	"	---	90	25-133%	---	---	
Phenanthrene	716	---	250	"	"	"	---	89	50-121%	---	---	
Phenol	800	---	250	"	"	"	---	100	34-120%	---	---	
Pyrene	736	---	250	"	"	"	---	92	47-127%	---	---	
Pyridine	698	---	500	"	"	"	---	87	5-120%	---	---	
2,3,4,6-Tetrachlorophenol	683	---	250	"	"	"	---	85	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	668	---	250	"	"	"	---	84	40-120%	---	---	
1,2,4-Trichlorobenzene	694	---	250	"	"	"	---	87	34-120%	---	---	
2,4,5-Trichlorophenol	735	---	250	"	"	"	---	92	41-124%	---	---	
2,4,6-Trichlorophenol	730	---	250	"	"	"	---	91	39-126%	---	---	

<i>Surr:</i> Nitrobenzene-d5 (Surr)	<i>Recovery:</i> 95 %	<i>Limits:</i> 37-122 %	<i>Dilution:</i> 1x	
2-Fluorobiphenyl (Surr)	90 %	44-115 %	"	
Phenol-d6 (Surr)	92 %	33-122 %	"	
p-Terphenyl-d14 (Surr)	111 %	54-127 %	"	Q-41
2-Fluorophenol (Surr)	99 %	35-115 %	"	
2,4,6-Tribromophenol (Surr)	112 %	39-132 %	"	Q-41

Duplicate (5080209-DUP1)

Prepared: 08/10/15 10:21 Analyzed: 08/10/15 17:03

QC Source Sample: S+H-PortMix-Tual (A5H0142-01)

EPA 8270D

Acenaphthene	ND	---	265	ug/kg dry	1	---	ND	---	---	---	30%
Acenaphthylene	ND	---	265	"	"	---	ND	---	---	---	30%
Aniline	ND	---	265	"	"	---	ND	---	---	---	30%
Anthracene	ND	---	265	"	"	---	ND	---	---	---	30%
Azobenzene (1,2-DPH)	ND	---	265	"	"	---	ND	---	---	---	30%
Benz(a)anthracene	ND	---	265	"	"	---	ND	---	---	---	30%
Benzo(a)pyrene	ND	---	265	"	"	---	ND	---	---	---	30%
Benzo(b)fluoranthene	ND	---	265	"	"	---	ND	---	---	---	30%
Benzo(k)fluoranthene	ND	---	265	"	"	---	ND	---	---	---	30%
Benzo(b+k)fluoranthene(s)	ND	---	531	"	"	---	ND	---	---	---	30%

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546							Soil					
Duplicate (5080209-DUP1)				Prepared: 08/10/15 10:21			Analyzed: 08/10/15 17:03					
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
Benzo(g,h,i)perylene	ND	---	265	"	"	---	ND	---	---	---	30%	
Benzoic acid	ND	---	1330	"	"	---	ND	---	---	---	30%	
Benzyl alcohol	ND	---	265	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	---	265	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	---	265	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroisopropyl) ether	ND	---	265	"	"	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	---	265	"	"	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	---	265	"	"	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	---	265	"	"	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	---	265	"	"	---	ND	---	---	---	30%	
Carbazole	ND	---	265	"	"	---	ND	---	---	---	30%	
4-Chloroaniline	ND	---	265	"	"	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	---	265	"	"	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	---	265	"	"	---	ND	---	---	---	30%	
2-Chlorophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	---	265	"	"	---	ND	---	---	---	30%	
Chrysene	ND	---	265	"	"	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	265	"	"	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	265	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	---	265	"	"	---	ND	---	---	---	30%	
Diethylphthalate	ND	---	265	"	"	---	ND	---	---	---	30%	
Dimethylphthalate	ND	---	265	"	"	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	---	265	"	"	---	ND	---	---	---	30%	
1,2-Dinitrobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546							Soil					
Duplicate (5080209-DUP1)				Prepared: 08/10/15 10:21			Analyzed: 08/10/15 17:03					
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
1,3-Dinitrobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	---	637	"	"	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	---	265	"	"	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	---	265	"	"	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	---	265	"	"	---	ND	---	---	---	30%	
Fluoranthene	ND	---	265	"	"	---	ND	---	---	---	30%	
Fluorene	ND	---	265	"	"	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	265	"	"	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	---	265	"	"	---	ND	---	---	---	30%	
Hexachloroethane	ND	---	265	"	"	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	---	265	"	"	---	ND	---	---	---	30%	
Isophorone	ND	---	265	"	"	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	---	265	"	"	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	---	265	"	"	---	ND	---	---	---	30%	
2-Methylphenol	ND	---	265	"	"	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	---	265	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	265	"	"	---	ND	---	---	---	30%	
2-Nitroaniline	ND	---	265	"	"	---	ND	---	---	---	30%	
3-Nitroaniline	ND	---	265	"	"	---	ND	---	---	---	30%	
4-Nitroaniline	ND	---	265	"	"	---	ND	---	---	---	30%	
Nitrobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
2-Nitrophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
4-Nitrophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	---	265	"	"	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	---	265	"	"	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	---	265	"	"	---	ND	---	---	---	30%	

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
Duplicate (5080209-DUP1)				Prepared: 08/10/15 10:21		Analyzed: 08/10/15 17:03						
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
Pentachlorophenol (PCP)	ND	---	265	ug/kg dry	"	---	ND	---	---	---	30%	
Phenanthrene	ND	---	265	"	"	---	ND	---	---	---	30%	
Phenol	ND	---	265	"	"	---	ND	---	---	---	30%	
Pyrene	ND	---	265	"	"	---	ND	---	---	---	30%	
Pyridine	ND	---	531	"	"	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	265	"	"	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	---	265	"	"	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	---	265	"	"	---	ND	---	---	---	30%	

<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>Recovery: 96 %</i>	<i>Limits: 37-122 %</i>	<i>Dilution: 1x</i>	
<i>2-Fluorobiphenyl (Surr)</i>	<i>86 %</i>	<i>44-115 %</i>	<i>"</i>	
<i>Phenol-d6 (Surr)</i>	<i>82 %</i>	<i>33-122 %</i>	<i>"</i>	
<i>p-Terphenyl-d14 (Surr)</i>	<i>98 %</i>	<i>54-127 %</i>	<i>"</i>	<i>Q-4I</i>
<i>2-Fluorophenol (Surr)</i>	<i>84 %</i>	<i>35-115 %</i>	<i>"</i>	
<i>2,4,6-Tribromophenol (Surr)</i>	<i>130 %</i>	<i>39-132 %</i>	<i>"</i>	<i>Q-4I</i>

Matrix Spike (5080209-MS1)

Prepared: 08/10/15 10:21 Analyzed: 08/10/15 17:42

QC Source Sample: S+H-PortMix-Tual (A5H0142-01)

EPA 8270D

Acenaphthene	704	---	265	ug/kg dry	1	849	ND	83	40-122%	---	---
Acenaphthylene	716	---	265	"	"	"	ND	84	32-132%	---	---
Aniline	ND	---	265	"	"	"	ND	8	7-120%	---	---
Anthracene	761	---	265	"	"	"	ND	90	47-123%	---	---
Azobenzene (1,2-DPH)	790	---	265	"	"	"	ND	93	39-125%	---	---
Benz(a)anthracene	718	---	265	"	"	"	ND	85	49-126%	---	---
Benzo(a)pyrene	768	---	265	"	"	"	ND	90	45-129%	---	---
Benzo(b)fluoranthene	737	---	265	"	"	"	ND	87	45-132%	---	---
Benzo(k)fluoranthene	722	---	265	"	"	"	ND	85	47-132%	---	---
Benzo(b+k)fluoranthene(s)	1470	---	531	"	"	1700	ND	86	45-132%	---	---
Benzo(g,h,i)perylene	717	---	265	"	"	849	ND	84	43-134%	---	---

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546						Soil						
Matrix Spike (5080209-MS1)				Prepared: 08/10/15 10:21		Analyzed: 08/10/15 17:42						
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
Benzoic acid	ND	---	1330	ug/kg dry	"	1700	ND	64	5-140%	---	---	
Benzyl alcohol	788	---	265	"	"	849	ND	93	29-122%	---	---	
Bis(2-Chloroethoxy) methane	690	---	265	"	"	"	ND	81	36-121%	---	---	
Bis(2-Chloroethyl) ether	1240	---	265	"	"	"	ND	146	31-120%	---	---	Q-01
Bis(2-Chloroisopropyl) ether	796	---	265	"	"	"	ND	94	33-131%	---	---	Q-41
Bis(2-Ethylhexyl) adipate	763	---	265	"	"	"	ND	90	60-121%	---	---	
Bis(2-ethylhexyl)phthalate	844	---	265	"	"	"	ND	99	51-133%	---	---	
4-Bromophenyl phenyl ether	843	---	265	"	"	"	ND	99	46-124%	---	---	Q-41
Butyl benzyl phthalate	773	---	265	"	"	"	ND	91	48-132%	---	---	
Carbazole	710	---	265	"	"	"	ND	84	50-122%	---	---	
4-Chloroaniline	ND	---	265	"	"	"	ND	25	16-120%	---	---	
4-Chloro-3-methylphenol	785	---	265	"	"	"	ND	92	45-122%	---	---	
2-Chloronaphthalene	707	---	265	"	"	"	ND	83	41-120%	---	---	
2-Chlorophenol	737	---	265	"	"	"	ND	87	34-121%	---	---	
4-Chlorophenyl phenyl ether	710	---	265	"	"	"	ND	84	45-121%	---	---	
Chrysene	710	---	265	"	"	"	ND	84	50-124%	---	---	
Dibenz(a,h)anthracene	739	---	265	"	"	"	ND	87	45-134%	---	---	
Dibenzofuran	690	---	265	"	"	"	ND	81	44-120%	---	---	
1,2-Dichlorobenzene	619	---	265	"	"	"	ND	73	33-120%	---	---	
1,3-Dichlorobenzene	606	---	265	"	"	"	ND	71	30-120%	---	---	
1,4-Dichlorobenzene	616	---	265	"	"	"	ND	72	31-120%	---	---	
2,4-Dichlorophenol	790	---	265	"	"	"	ND	93	40-122%	---	---	
Di-n-butylphthalate	808	---	265	"	"	"	ND	95	51-128%	---	---	
Diethylphthalate	761	---	265	"	"	"	ND	90	50-124%	---	---	
Dimethylphthalate	746	---	265	"	"	"	ND	88	48-124%	---	---	
2,4-Dimethylphenol	837	---	265	"	"	"	ND	99	30-127%	---	---	Q-41
1,2-Dinitrobenzene	703	---	265	"	"	"	ND	83	44-120%	---	---	
1,3-Dinitrobenzene	725	---	265	"	"	"	ND	85	42-127%	---	---	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546							Soil					
Matrix Spike (5080209-MS1)				Prepared: 08/10/15 10:21		Analyzed: 08/10/15 17:42						
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
1,4-Dinitrobenzene	742	---	265	"	"	"	ND	87	37-132%	---	---	
4,6-Dinitro-2-methylphenol	ND	---	637	"	"	"	ND	74	29-132%	---	---	
2,4-Dinitrophenol	397	---	265	"	"	"	ND	47	5-137%	---	---	
2,4-Dinitrotoluene	734	---	265	"	"	"	ND	86	48-126%	---	---	
2,6-Dinitrotoluene	765	---	265	"	"	"	ND	90	46-124%	---	---	
Di-n-octyl phthalate	786	---	265	"	"	"	ND	93	44-140%	---	---	
Fluoranthene	735	---	265	"	"	"	ND	86	50-127%	---	---	
Fluorene	699	---	265	"	"	"	ND	82	43-125%	---	---	
Hexachlorobenzene	806	---	265	"	"	"	ND	95	44-122%	---	---	
Hexachlorobutadiene	740	---	265	"	"	"	ND	87	32-123%	---	---	
Hexachlorocyclopentadiene	ND	---	265	"	"	"	ND	21	5-140%	---	---	Q-41
Hexachloroethane	521	---	265	"	"	"	ND	61	28-120%	---	---	
Indeno(1,2,3-cd)pyrene	659	---	265	"	"	"	ND	78	45-133%	---	---	
Isophorone	802	---	265	"	"	"	ND	94	30-122%	---	---	
1-Methylnaphthalene	685	---	265	"	"	"	ND	81	40-120%	---	---	
2-Methylnaphthalene	724	---	265	"	"	"	ND	85	38-122%	---	---	
2-Methylphenol	807	---	265	"	"	"	ND	95	32-122%	---	---	
3+4-Methylphenol(s)	837	---	265	"	"	"	ND	99	34-120%	---	---	
Naphthalene	662	---	265	"	"	"	ND	78	35-123%	---	---	
2-Nitroaniline	718	---	265	"	"	"	ND	84	44-127%	---	---	
3-Nitroaniline	301	---	265	"	"	"	ND	35	33-120%	---	---	
4-Nitroaniline	398	---	265	"	"	"	ND	47	35-120%	---	---	
Nitrobenzene	780	---	265	"	"	"	ND	92	34-122%	---	---	
2-Nitrophenol	771	---	265	"	"	"	ND	91	36-123%	---	---	
4-Nitrophenol	699	---	265	"	"	"	ND	82	30-132%	---	---	
N-Nitrosodimethylamine	760	---	265	"	"	"	ND	89	23-120%	---	---	Q-41
N-Nitroso-di-n-propylamine	839	---	265	"	"	"	ND	99	36-120%	---	---	Q-41
N-Nitrosodiphenylamine	654	---	265	"	"	"	ND	77	38-127%	---	---	
Pentachlorophenol (PCP)	850	---	265	"	"	"	ND	100	25-133%	---	---	

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080209 - EPA 3546							Soil					
Matrix Spike (5080209-MS1)				Prepared: 08/10/15 10:21		Analyzed: 08/10/15 17:42						
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
Phenanthrene	706	---	265	ug/kg dry	"	"	ND	83	50-121%	---	---	
Phenol	756	---	265	"	"	"	ND	89	34-120%	---	---	
Pyrene	712	---	265	"	"	"	ND	84	47-127%	---	---	
Pyridine	554	---	531	"	"	"	ND	65	5-120%	---	---	
2,3,4,6-Tetrachlorophenol	760	---	265	"	"	"	ND	90	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	753	---	265	"	"	"	ND	89	40-120%	---	---	
1,2,4-Trichlorobenzene	633	---	265	"	"	"	ND	75	34-120%	---	---	
2,4,5-Trichlorophenol	793	---	265	"	"	"	ND	93	41-124%	---	---	
2,4,6-Trichlorophenol	788	---	265	"	"	"	ND	93	39-126%	---	---	

<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>Recovery: 91 %</i>	<i>Limits: 37-122 %</i>	<i>Dilution: 1x</i>	
<i>2-Fluorobiphenyl (Surr)</i>	<i>81 %</i>	<i>44-115 %</i>	<i>"</i>	
<i>Phenol-d6 (Surr)</i>	<i>87 %</i>	<i>33-122 %</i>	<i>"</i>	
<i>p-Terphenyl-d14 (Surr)</i>	<i>101 %</i>	<i>54-127 %</i>	<i>"</i>	<i>Q-41</i>
<i>2-Fluorophenol (Surr)</i>	<i>86 %</i>	<i>35-115 %</i>	<i>"</i>	
<i>2,4,6-Tribromophenol (Surr)</i>	<i>126 %</i>	<i>39-132 %</i>	<i>"</i>	<i>Q-41</i>

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080143 - EPA 3051A						Soil						
Blank (5080143-BLK1)						Prepared: 08/06/15 16:02		Analyzed: 08/06/15 19:52				
EPA 6020A												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	"	"	---	---	---	---	---	---	
Chromium	ND	---	1.00	"	"	---	---	---	---	---	---	
Lead	ND	---	2.00	"	"	---	---	---	---	---	---	
Manganese	ND	---	2.00	"	"	---	---	---	---	---	---	
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	
Zinc	ND	---	4.00	"	"	---	---	---	---	---	---	
Blank (5080143-BLK2)						Prepared: 08/06/15 16:02		Analyzed: 08/07/15 12:57				
EPA 6020A												
Copper	ND	---	4.00	mg/kg wet	10	---	---	---	---	---	---	Q-16
Manganese	ND	---	1.00	"	"	---	---	---	---	---	---	Q-16
LCS (5080143-BS1)						Prepared: 08/06/15 16:02		Analyzed: 08/06/15 19:55				
EPA 6020A												
Arsenic	44.9	---	1.00	mg/kg wet	10	50.0	---	90	80-120%	---	---	
Cadmium	45.8	---	0.200	"	"	"	---	92	"	---	---	
Chromium	47.0	---	1.00	"	"	"	---	94	"	---	---	
Lead	48.4	---	2.00	"	"	"	---	97	"	---	---	
Manganese	48.3	---	2.00	"	"	"	---	97	"	---	---	
Mercury	1.05	---	0.0800	"	"	1.00	---	105	"	---	---	
Zinc	45.0	---	4.00	"	"	50.0	---	90	"	---	---	
LCS (5080143-BS2)						Prepared: 08/06/15 16:02		Analyzed: 08/07/15 13:00				
EPA 6020A												
Copper	50.4	---	4.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	Q-16
Matrix Spike (5080143-MS2)						Prepared: 08/06/15 16:02		Analyzed: 08/06/15 21:17				
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
EPA 6020A												
Arsenic	58.3	---	1.22	mg/kg dry	10	61.2	1.12	93	75-125%	---	---	
Cadmium	58.5	---	0.245	"	"	"	ND	96	"	---	---	

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4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080143 - EPA 3051A						Soil						
Matrix Spike (5080143-MS2)						Prepared: 08/06/15 16:02		Analyzed: 08/06/15 21:17				
QC Source Sample: S+H-PortMix-Tual (A5H0142-01)												
Chromium	70.4	---	1.22	mg/kg dry	"	"	8.65	101	"	---	---	
Lead	66.3	---	2.45	"	"	"	4.68	101	"	---	---	
Manganese	366	---	2.45	"	"	"	265	165	"	---	---	Q-03
Mercury	1.17	---	0.0979	"	"	1.22	ND	96	"	---	---	Q-41
Zinc	94.8	---	4.89	"	"	61.2	35.3	97	"	---	---	
Matrix Spike (5080143-MS3)						Prepared: 08/06/15 16:02		Analyzed: 08/07/15 13:24				
QC Source Sample: S+H-PortMix-Tual (A5H0142-01RE1)												
EPA 6020A												
Copper	83.3	---	4.89	mg/kg dry	10	61.2	19.1	105	75-125%	---	---	Q-16



Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 5080163 - Total Solids (Dry Weight)

Soil

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz - Oregon Steel
Project Number: [none]
Project Manager: Nathan CutlerReported:
09/14/15 17:00

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080150							
A5H0142-01	Soil	EPA 8082A	08/06/15 12:00	08/07/15 07:18	10.43g/5mL	10g/5mL	0.96

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080223							
A5H0142-01RE1	Soil	EPA 8081B	08/06/15 12:00	08/07/15 07:20	10.74g/10mL	10g/5mL	1.86

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080209							
A5H0142-01RE2	Soil	EPA 8270D	08/06/15 12:00	08/10/15 10:21	11.35g/5mL	10g/5mL	0.88

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080143							
A5H0142-01	Soil	EPA 6020A	08/06/15 12:00	08/06/15 16:02	0.491g/50mL	0.5g/50mL	1.02
A5H0142-01RE1	Soil	EPA 6020A	08/06/15 12:00	08/06/15 16:02	0.491g/50mL	0.5g/50mL	1.02

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5080163							
A5H0142-01	Soil	EPA 8000C	08/06/15 12:00	08/07/15 09:57	1N/A/1N/A	1N/A/1N/A	NA

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

Notes and Definitions

Qualifiers:

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

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Darrell Auvil For Darwin Thomas, Business Development Director

Strider Construction Co

4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz - Oregon Steel**

Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Darrell Auvil For Darwin Thomas, Business Development Director

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Project: **Evraz - Oregon Steel**
Project Number: [none]
Project Manager: Nathan Cutler

Reported:
09/14/15 17:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 33 of 33

Lab # ASH0142 COC 1 of 1

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: <u>Strider Construction Co.</u>		Project Mgr: <u>Nathan Gutter</u>		Project Name: <u>EVRAZ-Oregon Steel</u>		Project #	
Address: <u>4721 Northurst Drive, Bellingham, WA 98226</u>		Phone: <u>360-739-2729</u>		Office Fax: <u>360-380-1834</u>		Email: <u>nathanc@striderconstruction.com</u>	
Sampled by: <u>Andrew Halmslad</u>		ANALYSIS REQUEST					
Site Location: <u>DR</u> <u>WA</u> Other: _____		LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	
SAMPLE ID							
1 <u>S+H-Port Mix-Tual</u>			<u>8/6/15</u>	<u>1200</u>	<u>soil</u>	<u>3</u>	
2							
3							
4							
5							
6							
7							
8							
9							
10							
Normal Turn Around Time (TAT) = 7-10 Business Days YES NO <u>Rush</u> TAT Requested (circle) 1 Day 2 Day <u>3 Day</u> 4 DAY 5 DAY Other: <u>Rush-ASAP</u>		SPECIAL INSTRUCTIONS: <u>*Metals 6010 include: arsenic, cadmium, chromium, copper, lead, manganese, & zinc</u>					
SAMPLES ARE HELD FOR 30 DAYS							
RELINQUISHED BY:		RECEIVED BY:					
Signature: <u>Andrew Halmslad</u> Date: <u>8/6/15</u>		Signature: <u>[Signature]</u> Date: <u>8/6/15</u>					
Printed Name: <u>Andrew Halmslad</u> Time: <u>1245</u>		Printed Name: <u>[Signature]</u> Time: <u>1245</u>					
Company: <u>Evraaz</u>		Company: <u>[Signature]</u>					
RELINQUISHED BY:		RECEIVED BY:					
Signature:		Signature:					
Date:		Date:					
Printed Name:		Printed Name:					
Time:		Time:					
Company:		Company:					

Donald La Prairie

SOIL PARTICLE-SIZE ANALYSIS REPORT

PROJECT Evraz Rivergate Facility – 15EV Portland, OR	CLIENT Mr. Nate Andersh Strider Construction Co, Inc. 4721 Northwest Drive Bellingham, WA 98226	PROJECT NO.	LAB D
		15246	S15-658
		REPORT DATE	F ELD ID
		09/10/15	n/a
		DATE SAMPLED	SAMPLED BY
		09/03/15	NMF

MATERIAL DATA

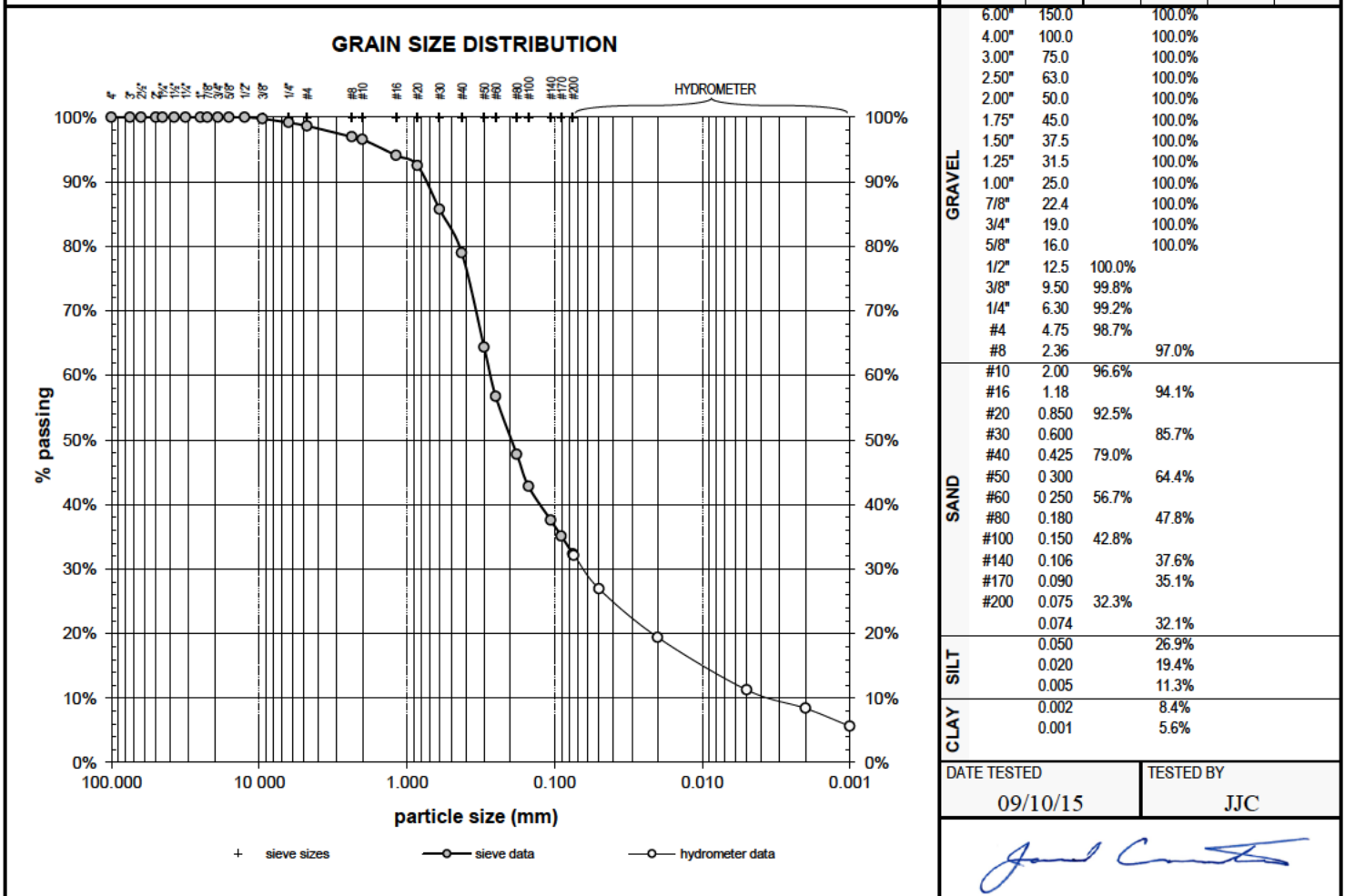
MATERIAL SAMPLED S&H Portland Mix	MATERIAL SOURCE stockpile sample S&H - Tualatin, OR	USDA SOIL CLASSIFICATION sandy loam
--------------------------------------	---	--

NOTES Percent gravel indicated includes organic material retained on the No. 10 sieve.

LABORATORY TEST DATA

LABORATORY EQUIPMENT Hydrometer 152H, 1 minute in Stirring Apparatus A, Rainhart "Mary Ann" Sifter 637	TEST PROCEDURE ASTM D422
---	-----------------------------

ADDITIONAL DATA		SIEVE DATA - USDA	
initial dry mass (g) = 5452.8	hydrometer sample mass (g) = 102.07	% gravel = 3.4%	
as received moisture content = n/a	hygroscopic moisture content = 7.87%	% sand = 69.7%	
liquid limit = n/a	coefficient of curvature, C _c = 4.41	% silt = 18.5%	
plastic limit = n/a	coefficient of uniformity, C _u = 81.24	% clay = 8.4%	
plasticity index = n/a	effective size, D ₍₁₀₎ = 0.003 mm		
fineness modulus = n/a	D ₍₃₀₎ = 0.063 mm		
	D ₍₆₀₎ = 0.270 mm		



CRUSHED ROCK

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, August 27, 2015

Terry Rice
Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

RE: Storedahl-Evraz / 1033Q

Enclosed are the results of analyses for work order A5G0531, which was received by the laboratory on 7/20/2015 at 3:15:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**
Project Number: 1033Q
Project Manager: Terry Rice

Reported:
08/27/15 12:06

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LivingstonG-121 ODOT 11/2" E Comp	A5G0531-01	Soil	07/18/15 10:25	07/20/15 15:15
LivingstonG-121 ODOT 11/2" C Comp	A5G0531-02	Soil	07/18/15 10:58	07/20/15 15:15
LivingstonG-121 ODOT 11/2" W Comp	A5G0531-03	Soil	07/18/15 11:40	07/20/15 15:15

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**
Project Number: 1033Q
Project Manager: Terry Rice

Reported:
08/27/15 12:06

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
LivingstonG-121 ODOT 11/2" E Comp (A5G0531-01)			Matrix: Soil					
Batch: 5070514								
Copper	100	---	1.11	mg/kg dry	10	07/22/15 14:53	EPA 6020A	B
LivingstonG-121 ODOT 11/2" C Comp (A5G0531-02)			Matrix: Soil					
Batch: 5070514								
Copper	115	---	1.09	mg/kg dry	10	07/22/15 14:56	EPA 6020A	B
LivingstonG-121 ODOT 11/2" W Comp (A5G0531-03)			Matrix: Soil					
Batch: 5070514								
Copper	90.4	---	1.10	mg/kg dry	10	07/22/15 14:59	EPA 6020A	B

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry Rice

Reported:
08/27/15 12:06

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
LivingstonG-121 ODOT 11/2" E Comp (A5G0531-01)			Matrix: Soil		Batch: 5070504			
% Solids	97.2	---	1.00	% by Weight	1	07/21/15 09:49	EPA 8000C	Q-38
LivingstonG-121 ODOT 11/2" C Comp (A5G0531-02)			Matrix: Soil		Batch: 5070504			
% Solids	96.8	---	1.00	% by Weight	1	07/21/15 09:49	EPA 8000C	Q-38
LivingstonG-121 ODOT 11/2" W Comp (A5G0531-03)			Matrix: Soil		Batch: 5070504			
% Solids	97.3	---	1.00	% by Weight	1	07/21/15 09:49	EPA 8000C	Q-38

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 12:06

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070514 - EPA 3051A						Soil						
Blank (5070514-BLK2)					Prepared: 07/20/15 15:51		Analyzed: 07/22/15 21:09					
EPA 6020A												
Copper	1.38	---	1.00	mg/kg wet	10	---	---	---	---	---	---	B, Q-16
LCS (5070514-BS1)					Prepared: 07/20/15 15:51		Analyzed: 07/22/15 13:59					
EPA 6020A												
Copper	46.5	---	1.00	mg/kg wet	10	50.0	---	93	80-120%	---	---	B
Matrix Spike (5070514-MS2)					Prepared: 07/20/15 15:51		Analyzed: 07/22/15 15:02					
QC Source Sample: LivingstonG-121 ODOT 11/2" W Comp (A5G0531-03)												
EPA 6020A												
Copper	168	---	1.06	mg/kg dry	10	52.8	90.4	147	75-125%	---	---	B, Q-03

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Darrell Auvil For Darwin Thomas, Business Development Director

Page 5 of 9

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry Rice

Reported:
08/27/15 12:06

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 5070504 - Total Solids (Dry Weight)

Soil

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry Rice

Reported:
08/27/15 12:06

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070514							
A5G0531-01	Soil	EPA 6020A	07/18/15 10:25	07/20/15 15:51	0.465g/50mL	0.5g/50mL	1.08
A5G0531-02	Soil	EPA 6020A	07/18/15 10:58	07/20/15 15:51	0.475g/50mL	0.5g/50mL	1.05
A5G0531-03	Soil	EPA 6020A	07/18/15 11:40	07/20/15 15:51	0.466g/50mL	0.5g/50mL	1.07

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070504							
A5G0531-01	Soil	EPA 8000C	07/18/15 10:25	07/20/15 17:04	1N/A/1N/A	1N/A/1N/A	NA
A5G0531-02	Soil	EPA 8000C	07/18/15 10:58	07/20/15 17:04	1N/A/1N/A	1N/A/1N/A	NA
A5G0531-03	Soil	EPA 8000C	07/18/15 11:40	07/20/15 17:04	1N/A/1N/A	1N/A/1N/A	NA

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**

Project Number: 1033Q
Project Manager: Terry Rice

Reported:
08/27/15 12:06

Notes and Definitions

Qualifiers:

- B Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-38 Oven outside of control limits during drying step.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Darrell Auvin For Darwin Thomas, Business Development Director

Page 8 of 9

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12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: **Stordahl-Evraz**
Project Number: **1033Q**
Project Manager: **Terry Rice**

Reported:
08/27/15 12:06

APEX LABS

CHAIN OF CUSTODY

Lab # A560531 coc 6r1

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: <u>Columbia West Eng</u>		Project Mgr: <u>Terry Rice</u>		Project Name: <u>Stordahl-Evraz</u>		Project # <u>1033Q</u>	
Address: <u>11917 NE 95th St Vancouver, WA 98682</u>		Phone: <u>360-823-2926</u>		Fax: <u>503-823-2926</u>		Email:	
Sampled by: <u>Terry Rice</u>		ANALYSIS REQUEST					
Site Location: OR <input checked="" type="radio"/> WA	Other: _____	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	
SAMPLE ID							
1 Livingston 6-121005 1 1/2" E Comp		7-18-15	1025	Soil	1		
2 Livingston 6-121005 1 1/2" C Comp			1058		1		
3 Livingston 6-121005 1 1/2" W Comp			1140		1		
4							
5							
6							
7							
8							
9							
10							
Normal Turn Around Time (TAT) = 7-10 Business Days		YES		NO			
TAT Requested (circle)		<input checked="" type="radio"/> 1 Day		<input type="radio"/> 2 Day		<input type="radio"/> 3 Day	
		<input type="radio"/> 4 DAY		<input type="radio"/> 5 DAY		Other: _____	
SAMPLES ARE HELD FOR 30 DAYS							
RELINQUISHED BY:		RECEIVED BY:					
Signature: <u>Terry Rice</u> Date: <u>7/29/15</u>		Signature: <u>[Signature]</u> Date: <u>7/29/15</u>					
Printed Name: <u>Terry Rice</u> Time: <u>15:15</u>		Printed Name: <u>[Signature]</u> Time: <u>15:15</u>					
Company: <u>CWE</u>		Company: <u>Apex</u>					
		SPECIAL INSTRUCTIONS: <u>Results by 6 AM Tues 7-21-15 Cu Copper-Totals</u> <u>E Comp, C Comp, & W Comp are 5 point composites</u> <u>East Center West Please Store Sample For</u>					
RELINQUISHED BY:		RECEIVED BY: <u>Other analysis</u>					
Signature:		Signature:					
Date:		Date:					
Printed Name:		Printed Name:					
Time:		Time:					
Company:		Company:					

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Apex Laboratories

[Signature]

Darrell Auvi For Darwin Thomas, Business Development Director

FIELD WORKSHEET FOR AGGREGATE

E English (E) or Metric (M)

PROJECT NAME (SECTION) EVRAZ				CONTRACT NUMBER 10033Q	
CONTRACTOR OR SUPPLIER J.L. Storedahl & Sons			PROJECT MANAGER -		BID ITEM NUMBER -
SOURCE NAME Livingston Mountain Quarry (G121)			SOURCE NUMBER WA-06-013-1		MATERIAL SIZE 1 1/2" - 0
TEST NO. S15-462	DATE 7/10/2015	TIME 13:00	SAMPLED AT belt stream		TO BE USED IN aggregate base

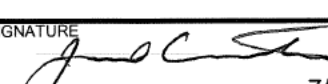
SIEVE	SPECS.	SIEVE ANALYSIS AASHTO T27/11							FM
SIZE	LIMITS	MASS 1	MASS 2	MASS 3	MASS 4	TOTAL MASS	% RET	% PASS	CUMULATIVE % RETAINED
2	100	0.0	0.0	0.0	0.0	0.0	0.0	100	
1 1/2"	95-100	0.0	0.0	0.0	0.0	0.0	0.0	100	
1"	-	504.2	865.5	727.3	0.0	2097.0	13.2	87	
3/4"	55-75	849.3	1334.9	1362.4	0.0	3546.6	22.3	65	
1/2"	-	505.9	443.6	446.0	5.7	1401.2	8.8	56	
3/8"	-	431.0	385.0	336.8	60.8	1213.6	7.6	48	
1/4"	35-50	780.6	588.1	594.5	157.8	2121.0	13.3	35	
#4	-	389.3	236.5	240.5	75.8	942.1	5.9	29	
#10	-	439.7	439.6	440.0	429.8	1749.1	11.0	18	
PAN	---	1278.5	579.6	537.0	470.3	2865.4	18.0		
B = INITIAL DRY MASS:		15928.4		D =MASS AFTER SIEVING:		15936.0			

SIEVE	SPECS.	FRACTURE % METHOD 2 AASHTO T 335				ELONGATED PIECES	
SIZE	LIMITS	FRAC MASS (F)	QUESTIONABLE MASS (Q)	NON FRAC MASS (N)	INDIVIDUAL FRAC %	TEST MASS	ELONG MASS
+ 1/4"	50-100%	3283.3	0.0	20.1	99%		

SE T 176			
1	2	3	Sample
5.9	5.8	6.0	Clay
3.4	3.4	3.4	Sand
58	59	57	S.E.
AVG.	58	SPEC	30
PAN TARE			1748.4
WET MASS & PAN			18194.0
DRY MASS & PAN			17676.8
AFTER WASH DRY MASS & PAN			17676.8

C = AFTER WASH DRY MASS & PAN - PAN B = DRY MASS & PAN - PAN ☒ DRY ☐ WET WAQTC AASHTO T-27/T11
A = WET MASS & PAN - PAN RESULT SPEC ☒ Round ☐ Square ☐ Rectangle 12" diameter Size

Fracture % Method 1	T 335			REMARKS
Wood Waste	TM225			
Cleanness Value	TM 227			
Flat & Elongated	TM 229			
Fineness Modulus	T 27/T11			
MOISTURE % = ((A-B) / B) X 100		3.2%		
SIEVE LOSS % = ((C-D) / C) X 100		0.0%	0.3% max	
(No 10 / 1/4") x 100		51%	40-60	

<input checked="" type="checkbox"/> QUALITY CONTROL	<input type="checkbox"/> VERIFICATION	INDEPENDENT ASSURANCE	
CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Jared J. Comastro #44232		COMPANY NAME Columbia West Eng.	SIGNATURE  DATE 7/15/2015

HYDROMULCH

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, October 15, 2015

Nathan Cutler
Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

RE: Evraz OR Steel / Evraz OR Steel

Enclosed are the results of analyses for work order A5J0281, which was received by the laboratory on 10/9/2015 at 3:57:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Darrell Auvil, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/15/15 14:59

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MULCH-HM-1	A5J0281-01	Solid	10/08/15 09:35	10/09/15 15:57
TACK-HM-1	A5J0281-02	Solid	10/08/15 09:45	10/09/15 15:57

Apex Laboratories



Darrell Auvil, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/15/15 14:59

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MULCH-HM-1 (A5J0281-01)			Matrix: Solid		Batch: 5100330			C-07
Aroclor 1016	ND	---	48.1	ug/kg	1	10/13/15 13:30	EPA 8082A	
Aroclor 1221	ND	---	48.1	"	"	"	"	
Aroclor 1232	ND	---	48.1	"	"	"	"	
Aroclor 1242	ND	---	48.1	"	"	"	"	
Aroclor 1248	ND	---	48.1	"	"	"	"	
Aroclor 1254	ND	---	48.1	"	"	"	"	
Aroclor 1260	ND	---	48.1	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 72-126 %</i>	"	"	"	<i>Q-41</i>
TACK-HM-1 (A5J0281-02RE1)			Matrix: Solid		Batch: 5100330			C-07
Aroclor 1016	ND	---	9.88	ug/kg	1	10/14/15 08:36	EPA 8082A	
Aroclor 1221	ND	---	9.88	"	"	"	"	
Aroclor 1232	ND	---	9.88	"	"	"	"	
Aroclor 1242	ND	---	9.88	"	"	"	"	
Aroclor 1248	ND	---	9.88	"	"	"	"	
Aroclor 1254	ND	---	9.88	"	"	"	"	
Aroclor 1260	ND	---	9.88	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 96 %</i>	<i>Limits: 72-126 %</i>	"	"	"	<i>Q-41</i>

Apex Laboratories

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/15/15 14:59

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100330 - EPA 3546						Solid						
Blank (5100330-BLK1)						Prepared: 10/12/15 13:27		Analyzed: 10/13/15 11:05		C-07		
EPA 8082A												
Aroclor 1016	ND	---	9.09	ug/kg	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	---	9.09	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 103 %		Limits: 72-126 %		Dilution: 1x		Q-41				
LCS (5100330-BS2)						Prepared: 10/12/15 13:27		Analyzed: 10/14/15 10:26		C-07		
EPA 8082A												
Aroclor 1016	174	---	10.0	ug/kg	1	250	---	70	47-134%	---	---	
Aroclor 1260	281	---	10.0	"	"	"	---	113	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 119 %		Limits: 72-126 %		Dilution: 1x		Q-41				
Matrix Spike (5100330-MS2)						Prepared: 10/12/15 13:27		Analyzed: 10/14/15 10:44		C-07		
QC Source Sample: TACK-HM-1 (A5J0281-02RE1)												
EPA 8082A												
Aroclor 1016	139	---	9.90	ug/kg	1	248	ND	56	47-134%	---	---	
Aroclor 1260	222	---	9.90	"	"	"	ND	90	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 98 %		Limits: 72-126 %		Dilution: 1x		Q-41				

Apex Laboratories

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/15/15 14:59

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5100330							
A5J0281-01	Solid	EPA 8082A	10/08/15 09:35	10/12/15 13:27	2.08g/5mL	10g/5mL	4.81
A5J0281-02RE1	Solid	EPA 8082A	10/08/15 09:45	10/12/15 13:27	10.12g/5mL	10g/5mL	0.99

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evrax OR Steel**
Project Number: Evrax OR Steel
Project Manager: Nathan Cutler

Reported:
10/15/15 14:59

Notes and Definitions

Qualifiers:

- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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Darrell Auvil, Project Manager

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evrax OR Steel**
Project Number: **Evrax OR Steel**
Project Manager: **Nathan Cutler**

Reported:
10/15/15 14:59

CHAIN OF CUSTODY

Lab # A5J0281 COC 1 of 1

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: <u>Strider Construction Co.</u>		Project Mgr: <u>Nathan Cutler</u>		Project Name: <u>EVRAX - OR Steel</u>		Project #	
Address: <u>4721 Northwest Drive, Bellingham, WA 98226</u>		Phone: <u>360-739-2729</u>		Fax: <u>360-380-1234</u>		Email: <u>nathanc@striderconstruction.com</u>	
Sampled by: <u>J. Sund, Integral</u>		ANALYSIS REQUEST					
Site Location: OR WA Other: _____	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	<input type="checkbox"/> NWTPH-HCID <input type="checkbox"/> NWTPH-DX <input type="checkbox"/> NWTPH-GX <input type="checkbox"/> 8260 VOC <input type="checkbox"/> 8260 RBDM VOCs <input type="checkbox"/> 8260 BTEX <input type="checkbox"/> 8270 SVOC <input type="checkbox"/> 8270 SIM PAHs <input checked="" type="checkbox"/> 8082 PCBs <input type="checkbox"/> 609 TTO <input type="checkbox"/> RCRA Metals (6) <input type="checkbox"/> TCLP Metals (8) <input type="checkbox"/> Al, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Hg, Mn, Mo, Ni, P, Se, Ag, Sn, Ti, V, Zn <input type="checkbox"/> TOTAL DISS TCLP <input type="checkbox"/> 1200+ COLS <input type="checkbox"/> 1200+ Z	
SAMPLE ID							
1 MULCH-HM-1		10/8/15	0935	Other	1		X
2 TACK-HM-1		↓	0945	↓	1		X
3 MULCH-HS-1		↓	0940	↓	1		X
4							
5							
6							
7							
8							
9							
10							
Normal Turn Around Time (TAT) = 7-10 Business Days						YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
TAT Requested (circle)						1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> 4 DAY <input type="checkbox"/> 5 DAY <input type="checkbox"/> Other: _____	
SAMPLES ARE HELD FOR 30 DAYS							
RELINQUISHED BY:				RECEIVED BY:			
Signature: <u>[Signature]</u>		Date: <u>10/8/15</u>		Signature: <u>[Signature]</u>		Date: <u>10/8/15</u>	
Printed Name: <u>Andrew J. Hunsch</u>		Time: <u>1557</u>		Printed Name: <u>Kevin Tenech</u>		Time: <u>1557</u>	
Company: <u>Integral Consulting Inc.</u>				Company: <u>Apex Labs</u>			

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[Signature]

Darrell Auviil, Project Manager

TOPSOIL

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Wednesday, October 14, 2015

Nathan Cutler
Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

RE: Evraz OR Steel / Evraz OR Steel

Enclosed are the results of analyses for work order A510362, which was received by the laboratory on 9/14/2015 at 2:37:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Darrell Auvil, Project Manager

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SH-Composite	A5I0362-03	Soil	09/14/15 14:00	09/14/15 14:37

Apex Laboratories



Darrell Auvil, Project Manager

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evrz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SH-Composite (A510362-03)			Matrix: Soil		Batch: 5100153			C-07
Aroclor 1016	ND	5.84	11.7	ug/kg dry	1	10/06/15 17:49	EPA 8082A	
Aroclor 1221	ND	5.84	11.7	"	"	"	"	
Aroclor 1232	ND	11.7	11.7	"	"	"	"	
Aroclor 1242	ND	5.84	11.7	"	"	"	"	
Aroclor 1248	ND	5.84	11.7	"	"	"	"	
Aroclor 1254	ND	5.84	11.7	"	"	"	"	
Aroclor 1260	ND	5.84	11.7	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 93 %</i>	<i>Limits: 72-126 %</i>	"	"	"	

Apex Laboratories



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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SH-Composite (A5I0362-03RE1)			Matrix: Soil		Batch: 5100206			C-05, H-02
Aldrin	ND	1.10	2.19	ug/kg dry	1	10/08/15 11:32	EPA 8081B	
alpha-BHC	ND	1.10	2.19	"	"	"	"	
beta-BHC	ND	2.19	2.19	"	"	"	"	
delta-BHC	ND	1.10	2.19	"	"	"	"	
gamma-BHC (Lindane)	ND	1.10	2.19	"	"	"	"	
cis-Chlordane	ND	2.63	2.63	"	"	"	"	R-02
trans-Chlordane	ND	1.10	2.19	"	"	"	"	
4,4'-DDD	ND	1.10	2.19	"	"	"	"	
4,4'-DDE	ND	4.61	4.61	"	"	"	"	R-02
4,4'-DDT	ND	2.19	2.19	"	"	"	"	
Dieldrin	ND	1.10	2.19	"	"	"	"	
Endosulfan I	ND	1.10	2.19	"	"	"	"	
Endosulfan II	ND	2.19	2.19	"	"	"	"	
Endosulfan sulfate	ND	2.19	2.19	"	"	"	"	
Endrin	ND	1.10	2.19	"	"	"	"	
Endrin Aldehyde	ND	2.19	2.19	"	"	"	"	
Endrin ketone	ND	2.19	2.19	"	"	"	"	
Heptachlor	ND	1.10	2.19	"	"	"	"	
Heptachlor epoxide	ND	1.10	2.19	"	"	"	"	
Methoxychlor	ND	7.02	7.02	"	"	"	"	R-02
Chlordane (Technical)	ND	32.9	65.8	"	"	"	"	
Toxaphene (Total)	ND	32.9	65.8	"	"	"	"	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>			<i>Recovery: 62 %</i>	<i>Limits: 42-129 %</i>	"	"	"	
<i>Decachlorobiphenyl (Surr)</i>			<i>92 %</i>	<i>Limits: 65-151 %</i>	"	"	"	

Apex Laboratories

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SH-Composite (A5I0362-03RE1)			Matrix: Soil		Batch: 5100135			H-06
Acenaphthene	ND	16.7	33.5	ug/kg dry	10	10/06/15 15:18	EPA 8270D	
Acenaphthylene	ND	16.7	33.5	"	"	"	"	
Anthracene	ND	16.7	33.5	"	"	"	"	
Benz(a)anthracene	19.5	16.7	33.5	"	"	"	"	J
Benzo(a)pyrene	ND	25.1	50.2	"	"	"	"	
Benzo(b)fluoranthene	ND	25.1	50.2	"	"	"	"	
Benzo(k)fluoranthene	ND	25.1	50.2	"	"	"	"	
Benzo(g,h,i)perylene	ND	16.7	33.5	"	"	"	"	
Chrysene	18.5	16.7	33.5	"	"	"	"	J
Dibenz(a,h)anthracene	ND	16.7	33.5	"	"	"	"	
Fluoranthene	56.3	16.7	33.5	"	"	"	"	
Fluorene	ND	16.7	33.5	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	16.7	33.5	"	"	"	"	
1-Methylnaphthalene	ND	33.5	66.8	"	"	"	"	
2-Methylnaphthalene	ND	33.5	66.8	"	"	"	"	
Naphthalene	ND	33.5	66.8	"	"	"	"	
Phenanthrene	46.0	16.7	33.5	"	"	"	"	
Pyrene	45.4	16.7	33.5	"	"	"	"	
Carbazole	ND	25.1	50.2	"	"	"	"	
Dibenzofuran	ND	16.7	33.5	"	"	"	"	
4-Chloro-3-methylphenol	ND	167	335	"	"	"	"	
2-Chlorophenol	ND	83.6	167	"	"	"	"	
2,4-Dichlorophenol	ND	83.6	167	"	"	"	"	
2,4-Dimethylphenol	ND	83.6	167	"	"	"	"	
2,4-Dinitrophenol	ND	418	836	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	418	836	"	"	"	"	
2-Methylphenol	ND	41.8	83.6	"	"	"	"	
3+4-Methylphenol(s)	ND	41.8	83.6	"	"	"	"	
2-Nitrophenol	ND	167	335	"	"	"	"	
4-Nitrophenol	ND	167	335	"	"	"	"	
Pentachlorophenol (PCP)	ND	167	335	"	"	"	"	
Phenol	ND	33.5	66.8	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	83.6	167	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	83.6	167	"	"	"	"	
2,4,5-Trichlorophenol	ND	83.6	167	"	"	"	"	
2,4,6-Trichlorophenol	ND	83.6	167	"	"	"	"	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SH-Composite (A5I0362-03RE1)			Matrix: Soil		Batch: 5100135			H-06
Bis(2-ethylhexyl)phthalate	ND	251	502	ug/kg dry	10	"	EPA 8270D	
Butyl benzyl phthalate	212	167	335	"	"	"	"	J
Diethylphthalate	ND	167	335	"	"	"	"	
Dimethylphthalate	ND	167	335	"	"	"	"	
Di-n-butylphthalate	ND	167	335	"	"	"	"	
Di-n-octyl phthalate	ND	167	335	"	"	"	"	
N-Nitrosodimethylamine	ND	41.8	83.6	"	"	"	"	
N-Nitroso-di-n-propylamine	ND	41.8	83.6	"	"	"	"	
N-Nitrosodiphenylamine	ND	41.8	83.6	"	"	"	"	
Bis(2-Chloroethoxy) methane	ND	41.8	83.6	"	"	"	"	
Bis(2-Chloroethyl) ether	ND	41.8	83.6	"	"	"	"	
Bis(2-Chloroisopropyl) ether	ND	41.8	83.6	"	"	"	"	
Hexachlorobenzene	ND	16.7	33.5	"	"	"	"	
Hexachlorobutadiene	ND	41.8	83.6	"	"	"	"	
Hexachlorocyclopentadiene	ND	83.6	167	"	"	"	"	
Hexachloroethane	ND	41.8	83.6	"	"	"	"	
2-Chloronaphthalene	ND	16.7	33.5	"	"	"	"	
1,2-Dichlorobenzene	ND	41.8	83.6	"	"	"	"	
1,3-Dichlorobenzene	ND	41.8	83.6	"	"	"	"	
1,4-Dichlorobenzene	ND	41.8	83.6	"	"	"	"	
1,2,4-Trichlorobenzene	ND	41.8	83.6	"	"	"	"	
4-Bromophenyl phenyl ether	ND	41.8	83.6	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	41.8	83.6	"	"	"	"	
Aniline	ND	83.6	167	"	"	"	"	
4-Chloroaniline	ND	41.8	83.6	"	"	"	"	
2-Nitroaniline	ND	335	668	"	"	"	"	
3-Nitroaniline	ND	335	668	"	"	"	"	
4-Nitroaniline	ND	335	668	"	"	"	"	
Nitrobenzene	ND	167	335	"	"	"	"	
2,4-Dinitrotoluene	ND	167	335	"	"	"	"	
2,6-Dinitrotoluene	ND	167	335	"	"	"	"	
Benzoic acid	ND	2090	4180	"	"	"	"	
Benzyl alcohol	ND	83.6	167	"	"	"	"	
Isophorone	ND	41.8	83.6	"	"	"	"	
Azobenzene (1,2-DPH)	ND	41.8	83.6	"	"	"	"	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SH-Composite (A5I0362-03RE1)			Matrix: Soil		Batch: 5100135			H-06
Bis(2-Ethylhexyl) adipate	ND	418	836	ug/kg dry	10	"	EPA 8270D	
3,3'-Dichlorobenzidine	ND	167	335	"	"	"	"	
1,2-Dinitrobenzene	ND	418	836	"	"	"	"	
1,3-Dinitrobenzene	ND	418	836	"	"	"	"	
1,4-Dinitrobenzene	ND	418	836	"	"	"	"	
Pyridine	ND	83.6	167	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 75 %</i>	<i>Limits: 37-122 %</i>	"	"	"	
<i>2-Fluorobiphenyl (Surr)</i>			<i>60 %</i>	<i>Limits: 44-115 %</i>	"	"	"	
<i>Phenol-d6 (Surr)</i>			<i>55 %</i>	<i>Limits: 33-122 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>90 %</i>	<i>Limits: 54-127 %</i>	"	"	"	
<i>2-Fluorophenol (Surr)</i>			<i>62 %</i>	<i>Limits: 35-115 %</i>	"	"	"	
<i>2,4,6-Tribromophenol (Surr)</i>			<i>88 %</i>	<i>Limits: 39-132 %</i>	"	"	"	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evrz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SH-Composite (A5I0362-03)		Matrix: Soil						
Batch: 5100166								
Arsenic	3.78	0.612	1.22	mg/kg dry	10	10/07/15 12:40	EPA 6020A	
Cadmium	0.257	0.122	0.245	"	"	"	"	
Chromium	18.9	0.612	1.22	"	"	"	"	
Copper	25.8	0.612	1.22	"	"	"	"	
Lead	9.92	0.122	0.245	"	"	"	"	
Manganese	1180	0.612	1.22	"	"	"	"	
Mercury	ND	0.0490	0.0979	"	"	"	"	
Zinc	72.1	2.45	4.90	"	"	"	"	

Apex Laboratories



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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SH-Composite (A510362-03)			Matrix: Soil		Batch: 5100140			
% Solids	80.7	1.00	1.00	% by Weight	1	10/07/15 09:19	EPA 8000C	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100153 - EPA 3546						Soil						
Blank (5100153-BLK1)						Prepared: 10/06/15 12:55		Analyzed: 10/06/15 17:13		C-07		
EPA 8082A												
Aroclor 1016	ND	4.17	8.33	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	4.17	8.33	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 104 %		Limits: 72-126 %		Dilution: 1x						
LCS (5100153-BS1)						Prepared: 10/06/15 12:55		Analyzed: 10/06/15 17:31		C-07		
EPA 8082A												
Aroclor 1016	197	5.00	10.0	ug/kg wet	1	250	---	79	47-134%	---	---	
Aroclor 1260	270	5.00	10.0	"	"	"	---	108	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 109 %		Limits: 72-126 %		Dilution: 1x						
Duplicate (5100153-DUP1)						Prepared: 10/06/15 12:55		Analyzed: 10/06/15 18:26		C-07		
QC Source Sample: SH-Composite (A510362-03)												
EPA 8082A												
Aroclor 1016	ND	5.77	11.5	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	5.77	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1232	ND	11.5	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1242	ND	5.77	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1248	ND	5.77	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1254	ND	5.77	11.5	"	"	---	ND	---	---	---	30%	
Aroclor 1260	ND	5.77	11.5	"	"	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 89 %		Limits: 72-126 %		Dilution: 1x						

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evrax OR Steel**
Project Number: Evrax OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100206 - EPA 3546/3640A (GPC)						Soil						
Blank (5100206-BLK1)				Prepared: 10/06/15 12:52 Analyzed: 10/08/15 10:56					C-05			
EPA 8081B												
Aldrin	ND	0.833	1.67	ug/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	0.833	1.67	"	"	---	---	---	---	---	---	
beta-BHC	ND	0.833	1.67	"	"	---	---	---	---	---	---	
delta-BHC	ND	0.833	1.67	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	0.833	1.67	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	0.833	1.67	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	0.833	1.67	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	0.833	1.67	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	0.833	1.67	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Dieldrin	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Endosulfan I	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Endosulfan II	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Endrin	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Endrin ketone	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Heptachlor	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	0.833	1.67	"	"	---	---	---	---	---	---	
Methoxychlor	ND	2.50	5.00	"	"	---	---	---	---	---	---	
Chlordane (Technical)	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	25.0	50.0	"	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 63 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		85 %		65-151 %		"						

LCS (5100206-BS1)

Prepared: 10/06/15 12:52 Analyzed: 10/08/15 11:14

C-05

EPA 8081B												
Aldrin	45.8	1.00	2.00	ug/kg wet	1	50.0	---	92	45-136%	---	---	
alpha-BHC	45.4	1.00	2.00	"	"	"	---	91	45-137%	---	---	
beta-BHC	45.1	1.00	2.00	"	"	"	---	90	50-136%	---	---	
delta-BHC	49.5	1.00	2.00	"	"	"	---	99	47-139%	---	---	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100206 - EPA 3546/3640A (GPC)							Soil					
LCS (5100206-BS1)				Prepared: 10/06/15 12:52			Analyzed: 10/08/15 11:14				C-05	
gamma-BHC (Lindane)	46.9	1.00	2.00	"	"	"	---	94	49-135%	---	---	
cis-Chlordane	46.1	1.00	2.00	"	"	"	---	92	54-133%	---	---	
trans-Chlordane	46.6	1.00	2.00	"	"	"	---	93	53-135%	---	---	
4,4'-DDD	48.7	1.00	2.00	"	"	"	---	97	56-139%	---	---	
4,4'-DDE	48.1	1.00	2.00	"	"	"	---	96	56-134%	---	---	
4,4'-DDT	52.9	1.00	2.00	"	"	"	---	106	50-141%	---	---	
Dieldrin	48.7	1.00	2.00	"	"	"	---	97	56-136%	---	---	
Endosulfan I	47.8	1.00	2.00	"	"	"	---	96	52-132%	---	---	
Endosulfan II	49.5	1.00	2.00	"	"	"	---	99	53-134%	---	---	
Endosulfan sulfate	48.8	1.00	2.00	"	"	"	---	98	55-136%	---	---	
Endrin	51.8	1.00	2.00	"	"	"	---	104	56-140%	---	---	
Endrin Aldehyde	48.8	1.00	2.00	"	"	"	---	98	35-137%	---	---	
Endrin ketone	48.8	1.00	2.00	"	"	"	---	98	55-136%	---	---	
Heptachlor	47.9	1.00	2.00	"	"	"	---	96	47-136%	---	---	
Heptachlor epoxide	46.2	1.00	2.00	"	"	"	---	92	52-136%	---	---	
Methoxychlor	58.3	3.00	6.00	"	"	"	---	117	52-143%	---	---	

Surr: 2,4,5,6-TCMX (Surr)

Recovery: 71 %

Limits: 42-129 %

Dilution: 1x

Decachlorobiphenyl (Surr)

87 %

65-151 %

"

Duplicate (5100206-DUP1)

Prepared: 10/06/15 12:52 Analyzed: 10/08/15 12:08

C-05, H-02**QC Source Sample: SH-Composite (A5I0362-03RE1)****EPA 8081B**

Aldrin	ND	1.09	2.18	ug/kg dry	1	---	ND	---	---	---	30%	
alpha-BHC	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
beta-BHC	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
delta-BHC	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
gamma-BHC (Lindane)	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
cis-Chlordane	ND	2.18	2.18	"	"	---	ND	---	---	---	30%	
trans-Chlordane	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
4,4'-DDD	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
4,4'-DDE	ND	3.71	3.71	"	"	---	ND	---	---	---	30%	R-02
4,4'-DDT	ND	2.18	2.18	"	"	---	ND	---	---	---	30%	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100206 - EPA 3546/3640A (GPC)						Soil						
Duplicate (5100206-DUP1)				Prepared: 10/06/15 12:52		Analyzed: 10/08/15 12:08				C-05, H-02		
QC Source Sample: SH-Composite (A5I0362-03RE1)												
Dieldrin	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
Endosulfan I	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
Endosulfan II	ND	2.18	2.18	"	"	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
Endrin	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
Endrin Aldehyde	ND	2.18	2.18	"	"	---	ND	---	---	---	30%	
Endrin ketone	ND	2.18	2.18	"	"	---	ND	---	---	---	30%	
Heptachlor	ND	1.09	2.18	"	"	---	ND	---	---	---	30%	
Heptachlor epoxide	ND	1.09	2.18	"	"	---	1.31	---	---	***	30%	
Methoxychlor	ND	6.55	6.55	"	"	---	ND	---	---	---	30%	
Chlordane (Technical)	ND	32.7	65.5	"	"	---	ND	---	---	---	30%	
Toxaphene (Total)	ND	32.7	65.5	"	"	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 55 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		78 %		65-151 %		"						

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
Blank (5100135-BLK2)						Prepared: 10/06/15 07:41 Analyzed: 10/06/15 12:41						
EPA 8270D												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	"	"	---	---	---	---	---	---	
Benzo(b+k)fluoranthene(s)	ND	4.00	8.00	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	"	"	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	"	"	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	"	"	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	"	"	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	"	"	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	"	"	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	"	"	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	"	"	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	"	"	---	---	---	---	---	---	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
Blank (5100135-BLK2)						Prepared: 10/06/15 07:41 Analyzed: 10/06/15 12:41						
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	"	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	"	"	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	"	"	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	"	"	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	"	"	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	"	"	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Bis(2-Chloroisopropyl) ether	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	"	"	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	"	"	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	"	"	---	---	---	---	---	---	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
Blank (5100135-BLK2)						Prepared: 10/06/15 07:41 Analyzed: 10/06/15 12:41						
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	"	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	"	"	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	"	"	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	"	"	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	"	"	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	"	"	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	"	"	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	"	"	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	"	"	---	---	---	---	---	---	
Benzoic acid	ND	167	333	"	"	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	"	"	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	3.33	6.67	"	"	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	"	"	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	13.3	26.7	"	"	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	33.3	66.7	"	"	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	"	"	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	"	"	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	"	"	---	---	---	---	---	---	

Surr: Nitrobenzene-d5 (Surr)	Recovery: 86 %	Limits: 37-122 %	Dilution: 1x
2-Fluorobiphenyl (Surr)	73 %	44-115 %	"
Phenol-d6 (Surr)	71 %	33-122 %	"
p-Terphenyl-d14 (Surr)	94 %	54-127 %	"
2-Fluorophenol (Surr)	71 %	35-115 %	"
2,4,6-Tribromophenol (Surr)	86 %	39-132 %	"

LCS (5100135-BS2)

Prepared: 10/06/15 07:41 Analyzed: 10/06/15 13:19

EPA 8270D

Acenaphthene	671	2.00	4.00	ug/kg wet	1	800	---	84	40-122%	---	---
Acenaphthylene	639	2.00	4.00	"	"	"	---	80	32-132%	---	---

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
LCS (5100135-BS2)						Prepared: 10/06/15 07:41 Analyzed: 10/06/15 13:19						
Anthracene	685	2.00	4.00	ug/kg wet	"	"	---	86	47-123%	---	---	
Benz(a)anthracene	750	2.00	4.00	"	"	"	---	94	49-126%	---	---	
Benzo(a)pyrene	816	3.00	6.00	"	"	"	---	102	45-129%	---	---	
Benzo(b)fluoranthene	882	3.00	6.00	"	"	"	---	110	45-132%	---	---	
Benzo(k)fluoranthene	836	3.00	6.00	"	"	"	---	104	47-132%	---	---	
Benzo(b+k)fluoranthene(s)	1720	6.00	12.0	"	"	1600	---	108	45-132%	---	---	
Benzo(g,h,i)perylene	737	2.00	4.00	"	"	800	---	92	43-134%	---	---	
Chrysene	744	2.00	4.00	"	"	"	---	93	50-124%	---	---	
Dibenz(a,h)anthracene	746	2.00	4.00	"	"	"	---	93	45-134%	---	---	
Fluoranthene	680	2.00	4.00	"	"	"	---	85	50-127%	---	---	
Fluorene	668	2.00	4.00	"	"	"	---	83	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	716	2.00	4.00	"	"	"	---	90	45-133%	---	---	
1-Methylnaphthalene	584	4.00	8.00	"	"	"	---	73	40-120%	---	---	
2-Methylnaphthalene	604	4.00	8.00	"	"	"	---	75	38-122%	---	---	
Naphthalene	573	4.00	8.00	"	"	"	---	72	35-123%	---	---	
Phenanthrene	674	2.00	4.00	"	"	"	---	84	50-121%	---	---	
Pyrene	660	2.00	4.00	"	"	"	---	83	47-127%	---	---	
Carbazole	646	3.00	6.00	"	"	"	---	81	50-122%	---	---	
Dibenzofuran	625	2.00	4.00	"	"	"	---	78	44-120%	---	---	
4-Chloro-3-methylphenol	725	20.0	40.0	"	"	"	---	91	45-122%	---	---	
2-Chlorophenol	699	10.0	20.0	"	"	"	---	87	34-121%	---	---	
2,4-Dichlorophenol	663	10.0	20.0	"	"	"	---	83	40-122%	---	---	
2,4-Dimethylphenol	635	10.0	20.0	"	"	"	---	79	30-127%	---	---	
2,4-Dinitrophenol	766	50.0	100	"	"	"	---	96	5-137%	---	---	
4,6-Dinitro-2-methylphenol	762	50.0	100	"	"	"	---	95	29-132%	---	---	Q-41
2-Methylphenol	734	5.00	10.0	"	"	"	---	92	32-122%	---	---	
3+4-Methylphenol(s)	737	5.00	10.0	"	"	"	---	92	34-120%	---	---	
2-Nitrophenol	682	20.0	40.0	"	"	"	---	85	36-123%	---	---	
4-Nitrophenol	615	20.0	40.0	"	"	"	---	77	30-132%	---	---	
Pentachlorophenol (PCP)	748	20.0	40.0	"	"	"	---	94	25-133%	---	---	
Phenol	783	4.00	8.00	"	"	"	---	98	34-120%	---	---	Q-41

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
LCS (5100135-BS2)						Prepared: 10/06/15 07:41 Analyzed: 10/06/15 13:19						
2,3,4,6-Tetrachlorophenol	766	10.0	20.0	ug/kg wet	"	"	---	96	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	737	10.0	20.0	"	"	"	---	92	40-120%	---	---	
2,4,5-Trichlorophenol	742	10.0	20.0	"	"	"	---	93	41-124%	---	---	
2,4,6-Trichlorophenol	710	10.0	20.0	"	"	"	---	89	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	882	30.0	60.0	"	"	"	---	110	51-133%	---	---	
Butyl benzyl phthalate	862	20.0	40.0	"	"	"	---	108	48-132%	---	---	
Diethylphthalate	704	20.0	40.0	"	"	"	---	88	50-124%	---	---	
Dimethylphthalate	657	20.0	40.0	"	"	"	---	82	48-124%	---	---	
Di-n-butylphthalate	710	20.0	40.0	"	"	"	---	89	51-128%	---	---	
Di-n-octyl phthalate	962	20.0	40.0	"	"	"	---	120	44-140%	---	---	Q-41
N-Nitrosodimethylamine	676	5.00	10.0	"	"	"	---	84	23-120%	---	---	
N-Nitroso-di-n-propylamine	759	5.00	10.0	"	"	"	---	95	36-120%	---	---	
N-Nitrosodiphenylamine	710	5.00	10.0	"	"	"	---	89	38-127%	---	---	
Bis(2-Chloroethoxy) methane	641	5.00	10.0	"	"	"	---	80	36-121%	---	---	
Bis(2-Chloroethyl) ether	693	5.00	10.0	"	"	"	---	87	31-120%	---	---	
Bis(2-Chloroisopropyl) ether	644	5.00	10.0	"	"	"	---	80	33-131%	---	---	
Hexachlorobenzene	743	2.00	4.00	"	"	"	---	93	44-122%	---	---	
Hexachlorobutadiene	636	5.00	10.0	"	"	"	---	80	32-123%	---	---	
Hexachlorocyclopentadiene	722	10.0	20.0	"	"	"	---	90	5-140%	---	---	
Hexachloroethane	664	5.00	10.0	"	"	"	---	83	28-120%	---	---	
2-Chloronaphthalene	629	2.00	4.00	"	"	"	---	79	41-120%	---	---	
1,2-Dichlorobenzene	626	5.00	10.0	"	"	"	---	78	33-120%	---	---	
1,3-Dichlorobenzene	628	5.00	10.0	"	"	"	---	78	30-120%	---	---	
1,4-Dichlorobenzene	636	5.00	10.0	"	"	"	---	79	31-120%	---	---	
1,2,4-Trichlorobenzene	587	5.00	10.0	"	"	"	---	73	34-120%	---	---	
4-Bromophenyl phenyl ether	763	5.00	10.0	"	"	"	---	95	46-124%	---	---	
4-Chlorophenyl phenyl ether	712	5.00	10.0	"	"	"	---	89	45-121%	---	---	
Aniline	614	10.0	20.0	"	"	"	---	77	7-120%	---	---	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
LCS (5100135-BS2)						Prepared: 10/06/15 07:41 Analyzed: 10/06/15 13:19						
4-Chloroaniline	386	5.00	10.0	ug/kg wet	"	"	---	48	16-120%	---	---	
2-Nitroaniline	703	40.0	80.0	"	"	"	---	88	44-127%	---	---	
3-Nitroaniline	580	40.0	80.0	"	"	"	---	72	33-120%	---	---	
4-Nitroaniline	619	40.0	80.0	"	"	"	---	77	35-120%	---	---	
Nitrobenzene	728	20.0	40.0	"	"	"	---	91	34-122%	---	---	Q-41
2,4-Dinitrotoluene	718	20.0	40.0	"	"	"	---	90	48-126%	---	---	
2,6-Dinitrotoluene	720	20.0	40.0	"	"	"	---	90	46-124%	---	---	
Benzoic acid	633	250	500	"	"	1600	---	40	5-140%	---	---	Q-31
Benzyl alcohol	714	10.0	20.0	"	"	800	---	89	29-122%	---	---	
Isophorone	651	5.00	10.0	"	"	"	---	81	30-122%	---	---	
Azobenzene (1,2-DPH)	673	5.00	10.0	"	"	"	---	84	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	849	50.0	100	"	"	"	---	106	60-121%	---	---	
3,3'-Dichlorobenzidine	1780	20.0	40.0	"	"	1600	---	111	22-121%	---	---	Q-41
1,2-Dinitrobenzene	708	50.0	100	"	"	800	---	88	44-120%	---	---	
1,3-Dinitrobenzene	667	50.0	100	"	"	"	---	83	42-127%	---	---	
1,4-Dinitrobenzene	723	50.0	100	"	"	"	---	90	37-132%	---	---	
Pyridine	575	10.0	20.0	"	"	"	---	72	5-120%	---	---	
Surr: Nitrobenzene-d5 (Surr) Recovery: 92 % Limits: 37-122 % Dilution: 1x												
2-Fluorobiphenyl (Surr) 80 % 44-115 % "												
Phenol-d6 (Surr) 95 % 33-122 % "												
p-Terphenyl-d14 (Surr) 106 % 54-127 % "												
2-Fluorophenol (Surr) 92 % 35-115 % "												
2,4,6-Tribromophenol (Surr) 101 % 39-132 % "												

Duplicate (5100135-DUP1)

Prepared: 10/06/15 07:41 Analyzed: 10/06/15 15:57

H-06

QC Source Sample: SH-Composite (A510362-03RE1)

EPA 8270D

Acenaphthene	ND	17.0	34.2	ug/kg dry	10	---	ND	---	---	---	30%	
Acenaphthylene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
Anthracene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
Benz(a)anthracene	18.2	17.0	34.2	"	"	---	19.5	---	---	7	30%	J
Benzo(a)pyrene	ND	25.6	51.2	"	"	---	ND	---	---	---	30%	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
Duplicate (5100135-DUP1)				Prepared: 10/06/15 07:41			Analyzed: 10/06/15 15:57			H-06		
QC Source Sample: SH-Composite (A510362-03RE1)												
Benzo(b)fluoranthene	ND	25.6	51.2	ug/kg dry	"	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	25.6	51.2	"	"	---	ND	---	---	---	30%	
Benzo(b+k)fluoranthene(s)	ND	51.2	102	"	"	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
Chrysene	17.5	17.0	34.2	"	"	---	18.5	---	---	5	30%	J
Dibenz(a,h)anthracene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
Fluoranthene	55.6	17.0	34.2	"	"	---	56.3	---	---	1	30%	
Fluorene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	34.2	68.2	"	"	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	34.2	68.2	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	34.2	68.2	"	"	---	ND	---	---	---	30%	
Phenanthrene	45.0	17.0	34.2	"	"	---	46.0	---	---	2	30%	
Pyrene	42.5	17.0	34.2	"	"	---	45.4	---	---	7	30%	
Carbazole	ND	25.6	51.2	"	"	---	ND	---	---	---	30%	
Dibenzofuran	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	170	342	"	"	---	ND	---	---	---	30%	
2-Chlorophenol	ND	85.4	170	"	"	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	85.4	170	"	"	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	85.4	170	"	"	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	426	854	"	"	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	426	854	"	"	---	ND	---	---	---	30%	
2-Methylphenol	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
2-Nitrophenol	ND	170	342	"	"	---	ND	---	---	---	30%	
4-Nitrophenol	ND	170	342	"	"	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	170	342	"	"	---	ND	---	---	---	30%	
Phenol	ND	34.2	68.2	"	"	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	85.4	170	"	"	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	85.4	170	"	"	---	ND	---	---	---	30%	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
Duplicate (5100135-DUP1)				Prepared: 10/06/15 07:41		Analyzed: 10/06/15 15:57					H-06	
QC Source Sample: SH-Composite (A510362-03RE1)												
2,4,5-Trichlorophenol	ND	85.4	170	ug/kg dry	"	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	85.4	170	"	"	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	256	512	"	"	---	ND	---	---	---	30%	
Butyl benzyl phthalate	246	170	342	"	"	---	212	---	---	15	30%	J
Diethylphthalate	ND	170	342	"	"	---	ND	---	---	---	30%	
Dimethylphthalate	ND	170	342	"	"	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	170	342	"	"	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	170	342	"	"	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroisopropyl) ether	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	85.4	170	"	"	---	ND	---	---	---	30%	
Hexachloroethane	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	17.0	34.2	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Aniline	ND	85.4	170	"	"	---	ND	---	---	---	30%	
4-Chloroaniline	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100135 - EPA 3546						Soil						
Duplicate (5100135-DUP1)				Prepared: 10/06/15 07:41		Analyzed: 10/06/15 15:57					H-06	
QC Source Sample: SH-Composite (A510362-03RE1)												
2-Nitroaniline	ND	342	682	ug/kg dry	"	---	ND	---	---	---	30%	
3-Nitroaniline	ND	342	682	"	"	---	ND	---	---	---	30%	
4-Nitroaniline	ND	342	682	"	"	---	ND	---	---	---	30%	
Nitrobenzene	ND	170	342	"	"	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	170	342	"	"	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	170	342	"	"	---	ND	---	---	---	30%	
Benzoic acid	ND	2140	4260	"	"	---	ND	---	---	---	30%	
Benzyl alcohol	ND	85.4	170	"	"	---	ND	---	---	---	30%	
Isophorone	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	42.6	85.4	"	"	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	426	854	"	"	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	170	342	"	"	---	ND	---	---	---	30%	
1,2-Dinitrobenzene	ND	426	854	"	"	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	426	854	"	"	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	426	854	"	"	---	ND	---	---	---	30%	
Pyridine	ND	85.4	170	"	"	---	ND	---	---	---	30%	

<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>Recovery: 66 %</i>	<i>Limits: 37-122 %</i>	<i>Dilution: 10x</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>58 %</i>	<i>44-115 %</i>	<i>"</i>
<i>Phenol-d6 (Surr)</i>	<i>47 %</i>	<i>33-122 %</i>	<i>"</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>78 %</i>	<i>54-127 %</i>	<i>"</i>
<i>2-Fluorophenol (Surr)</i>	<i>55 %</i>	<i>35-115 %</i>	<i>"</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>90 %</i>	<i>39-132 %</i>	<i>"</i>

Apex Laboratories



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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100166 - EPA 3051A						Soil						
Blank (5100166-BLK1)				Prepared: 10/06/15 17:02 Analyzed: 10/07/15 12:34								
EPA 6020A												
Arsenic	ND	0.500	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	"	"	---	---	---	---	---	---	
Chromium	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Copper	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Lead	ND	0.100	0.200	"	"	---	---	---	---	---	---	
Manganese	ND	0.500	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	"	"	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	"	"	---	---	---	---	---	---	
LCS (5100166-BS1)				Prepared: 10/06/15 17:02 Analyzed: 10/07/15 12:37								
EPA 6020A												
Arsenic	51.6	0.500	1.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Cadmium	51.4	0.100	0.200	"	"	"	---	103	"	---	---	
Chromium	52.4	0.500	1.00	"	"	"	---	105	"	---	---	
Copper	53.6	0.500	1.00	"	"	"	---	107	"	---	---	
Lead	52.4	0.100	0.200	"	"	"	---	105	"	---	---	
Manganese	53.3	0.500	1.00	"	"	"	---	107	"	---	---	
Mercury	1.00	0.0400	0.0800	"	"	1.00	---	100	"	---	---	
Zinc	53.8	2.00	4.00	"	"	50.0	---	108	"	---	---	
Duplicate (5100166-DUP1)				Prepared: 10/06/15 17:02 Analyzed: 10/07/15 12:43								
QC Source Sample: SH-Composite (A510362-03)												
EPA 6020A												
Arsenic	3.51	0.623	1.25	mg/kg dry	10	---	3.78	---	---	7	40%	
Cadmium	0.299	0.125	0.249	"	"	---	0.257	---	---	15	40%	
Chromium	19.3	0.623	1.25	"	"	---	18.9	---	---	2	40%	
Copper	25.8	0.623	1.25	"	"	---	25.8	---	---	0.07	40%	
Lead	9.53	0.125	0.249	"	"	---	9.92	---	---	4	40%	
Manganese	978	0.623	1.25	"	"	---	1180	---	---	19	40%	
Mercury	ND	0.0499	0.0997	"	"	---	ND	---	---	---	40%	
Zinc	74.6	2.49	4.99	"	"	---	72.1	---	---	3	40%	

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5100166 - EPA 3051A						Soil						
Matrix Spike (5100166-MS1)						Prepared: 10/06/15 17:02		Analyzed: 10/07/15 12:46				
QC Source Sample: SH-Composite (A510362-03)												
EPA 6020A												
Arsenic	69.1	0.644	1.29	mg/kg dry	10	64.4	3.78	101	75-125%	---	---	Q-03
Cadmium	63.4	0.129	0.258	"	"	"	0.257	98	"	---	---	
Chromium	90.6	0.644	1.29	"	"	"	18.9	111	"	---	---	
Copper	95.0	0.644	1.29	"	"	"	25.8	107	"	---	---	
Lead	74.2	0.129	0.258	"	"	"	9.92	100	"	---	---	
Manganese	942	0.644	1.29	"	"	"	1180	-370	"	---	---	
Mercury	1.27	0.0515	0.103	"	"	1.29	ND	98	"	---	---	
Zinc	149	2.58	5.15	"	"	64.4	72.1	119	"	---	---	

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Darrell Auvil, Project Manager

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Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	--------------------	-------	------	-----------------	------------------	------	----------------	-----	--------------	-------

Batch 5100140 - Total Solids (Dry Weight)

Soil

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226Project: Evraz OR Steel
Project Number: Evraz OR Steel
Project Manager: Nathan CutlerReported:
10/14/15 13:27

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5100153							
A5I0362-03	Soil	EPA 8082A	09/14/15 14:00	10/06/15 12:55	10.61g/5mL	10g/5mL	0.94

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5100206							
A5I0362-03RE1	Soil	EPA 8081B	09/14/15 14:00	10/06/15 12:52	11.29g/10mL	10g/5mL	1.77

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5100135							
A5I0362-03RE1	Soil	EPA 8270D	09/14/15 14:00	10/06/15 07:42	14.82g/2mL	15g/2mL	1.01

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5100166							
A5I0362-03	Soil	EPA 6020A	09/14/15 14:00	10/06/15 17:02	0.506g/50mL	0.5g/50mL	0.99

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5100140							
A5I0362-03	Soil	EPA 8000C	09/14/15 14:00	10/06/15 09:24	1N/A/1N/A	1N/A/1N/A	NA

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Darrell Auvil, Project Manager

Strider Construction Co
4721 Northwest Drive
Bellingham, WA 98226

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

Notes and Definitions

Qualifiers:

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- H-02 This sample was extracted outside of the recommended holding time.
- H-06 This sample was received, or the analysis requested, outside the recommended holding time.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

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Darrell Auvil, Project Manager

Strider Construction Co

4721 Northwest Drive
Bellingham, WA 98226

Project: **Evrz OR Steel**

Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:

10/14/15 13:27

--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Darrell Auvil, Project Manager

**12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax**

Project: **Evraz OR Steel**
Project Number: Evraz OR Steel
Project Manager: Nathan Cutler

Reported:
10/14/15 13:27

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Page 29 of 29

Lab # A5I0362 COC 1 of 1

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

[illegible]

Donald La Prairie

UPPER BEACH

Friday, July 17, 2015

Terry Rice
Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

RE: Storedahl-Evraz / 100

Enclosed are the results of analyses for work order A5F0817, which was received by the laboratory on 6/26/2015 at 1:17:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Livingston G-121 ODOT 1 1/2"	A5F0817-01	Soil	06/26/15 06:45	06/26/15 13:17
Daybreak G-109 Beach Backfill	A5F0817-02	Soil	06/26/15 06:15	06/26/15 13:17
Livingston G-121 Berm Backfill	A5F0817-03	Soil	06/26/15 06:48	06/26/15 13:17

Apex Laboratories



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Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**

Project Number: 100

Project Manager: Terry Rice

Reported:

07/17/15 16:35

ANALYTICAL CASE NARRATIVE

Work Order: A5F0817

Amended Report Revision 1:

Additional Analysis-

This report supersedes all previous reports.

The final report has been amended to reflect additional metals, by EPA 6020 method, to samples:

Livingston G-121 ODOT 1 1/2" (Apex ID: A5F0817-01)

Livingston G-121 Berm Backfill (Apex ID: A5F0817-03)

Darrell Auvil

Project Manager

7/16/2015

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Livingston G-121 ODOT 1 1/2" (A5F0817-01)			Matrix: Soil		Batch: 5060841			C-07
Aroclor 1016	ND	---	10.3	ug/kg dry	1	06/29/15 20:13	EPA 8082A	
Aroclor 1221	ND	---	10.3	"	"	"	"	
Aroclor 1232	ND	---	10.3	"	"	"	"	
Aroclor 1242	ND	---	10.3	"	"	"	"	
Aroclor 1248	ND	---	10.3	"	"	"	"	
Aroclor 1254	ND	---	10.3	"	"	"	"	
Aroclor 1260	ND	---	10.3	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 87 %</i>	<i>Limits: 72-126 %</i>	"	"	"	
Daybreak G-109 Beach Backfill (A5F0817-02)			Matrix: Soil		Batch: 5060841			C-07
Aroclor 1016	ND	---	10.2	ug/kg dry	1	06/29/15 20:50	EPA 8082A	
Aroclor 1221	ND	---	10.2	"	"	"	"	
Aroclor 1232	ND	---	10.2	"	"	"	"	
Aroclor 1242	ND	---	10.2	"	"	"	"	
Aroclor 1248	ND	---	10.2	"	"	"	"	
Aroclor 1254	ND	---	10.2	"	"	"	"	
Aroclor 1260	ND	---	10.2	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 81 %</i>	<i>Limits: 72-126 %</i>	"	"	"	
Livingston G-121 Berm Backfill (A5F0817-03)			Matrix: Soil		Batch: 5060841			C-07
Aroclor 1016	ND	---	10.5	ug/kg dry	1	06/29/15 21:26	EPA 8082A	
Aroclor 1221	ND	---	10.5	"	"	"	"	
Aroclor 1232	ND	---	10.5	"	"	"	"	
Aroclor 1242	ND	---	10.5	"	"	"	"	
Aroclor 1248	ND	---	10.5	"	"	"	"	
Aroclor 1254	ND	---	10.5	"	"	"	"	
Aroclor 1260	ND	---	10.5	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 87 %</i>	<i>Limits: 72-126 %</i>	"	"	"	

Apex Laboratories



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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Livingston G-121 ODOT 1 1/2" (A5F0817-01)			Matrix:	Soil	Batch: 5060863				
Aldrin	ND	---	4.82		ug/kg dry	5	07/02/15 14:53	EPA 8081B	
alpha-BHC	ND	---	4.82		"	"	"	"	
beta-BHC	ND	---	4.82		"	"	"	"	
delta-BHC	ND	---	4.82		"	"	"	"	
gamma-BHC (Lindane)	ND	---	4.82		"	"	"	"	
cis-Chlordane	ND	---	4.82		"	"	"	"	
trans-Chlordane	ND	---	4.82		"	"	"	"	
4,4'-DDD	ND	---	4.82		"	"	"	"	
4,4'-DDE	ND	---	4.82		"	"	"	"	
4,4'-DDT	ND	---	4.82		"	"	"	"	
Dieldrin	ND	---	4.82		"	"	"	"	
Endosulfan I	ND	---	4.82		"	"	"	"	
Endosulfan II	ND	---	4.82		"	"	"	"	
Endosulfan sulfate	ND	---	4.82		"	"	"	"	
Endrin	ND	---	4.82		"	"	"	"	
Endrin Aldehyde	ND	---	4.82		"	"	"	"	
Endrin ketone	ND	---	4.82		"	"	"	"	
Heptachlor	ND	---	4.82		"	"	"	"	
Heptachlor epoxide	ND	---	4.82		"	"	"	"	
Methoxychlor	ND	---	14.5		"	"	"	"	Q-31
Chlordane (Technical)	ND	---	145		"	"	"	"	
Toxaphene (Total)	ND	---	145		"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			Recovery: 71 %	Limits: 42-129 %	"	"	"	"	
Decachlorobiphenyl (Surr)			91 %	Limits: 65-151 %	"	"	"	"	

Apex Laboratories

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit	Matrix:					
Daybreak G-109 Beach Backfill (A5F0817-02)			Soil	Batch: 5060863					
Aldrin	ND	---	4.42		ug/kg dry	5	07/02/15 15:30	EPA 8081B	
alpha-BHC	ND	---	4.42		"	"	"	"	
beta-BHC	ND	---	4.42		"	"	"	"	
delta-BHC	ND	---	4.42		"	"	"	"	
gamma-BHC (Lindane)	ND	---	4.42		"	"	"	"	
cis-Chlordane	ND	---	4.42		"	"	"	"	
trans-Chlordane	ND	---	4.42		"	"	"	"	
4,4'-DDD	ND	---	4.42		"	"	"	"	
4,4'-DDE	ND	---	4.42		"	"	"	"	
4,4'-DDT	ND	---	4.42		"	"	"	"	
Dieldrin	ND	---	4.42		"	"	"	"	
Endosulfan I	ND	---	4.42		"	"	"	"	
Endosulfan II	ND	---	4.42		"	"	"	"	
Endosulfan sulfate	ND	---	4.42		"	"	"	"	
Endrin	ND	---	4.42		"	"	"	"	
Endrin Aldehyde	ND	---	4.42		"	"	"	"	
Endrin ketone	ND	---	4.42		"	"	"	"	
Heptachlor	ND	---	4.42		"	"	"	"	
Heptachlor epoxide	ND	---	4.42		"	"	"	"	
Methoxychlor	ND	---	13.3		"	"	"	"	Q-31
Chlordane (Technical)	ND	---	133		"	"	"	"	
Toxaphene (Total)	ND	---	133		"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)		Recovery: 76 %		Limits: 42-129 %		"	"	"	
Decachlorobiphenyl (Surr)		87 %		Limits: 65-151 %		"	"	"	

Apex Laboratories

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Livingston G-121 Berm Backfill (A5F0817-03)			Matrix:	Soil	Batch: 5060863				
Aldrin	ND	---	4.66		ug/kg dry	5	07/02/15 15:48	EPA 8081B	
alpha-BHC	ND	---	4.66		"	"	"	"	
beta-BHC	ND	---	4.66		"	"	"	"	
delta-BHC	ND	---	4.66		"	"	"	"	
gamma-BHC (Lindane)	ND	---	4.66		"	"	"	"	
cis-Chlordane	ND	---	4.66		"	"	"	"	
trans-Chlordane	ND	---	4.66		"	"	"	"	
4,4'-DDD	ND	---	4.66		"	"	"	"	
4,4'-DDE	ND	---	4.66		"	"	"	"	
4,4'-DDT	ND	---	4.66		"	"	"	"	
Dieldrin	ND	---	4.66		"	"	"	"	
Endosulfan I	ND	---	4.66		"	"	"	"	
Endosulfan II	ND	---	4.66		"	"	"	"	
Endosulfan sulfate	ND	---	4.66		"	"	"	"	
Endrin	ND	---	4.66		"	"	"	"	
Endrin Aldehyde	ND	---	4.66		"	"	"	"	
Endrin ketone	ND	---	4.66		"	"	"	"	
Heptachlor	ND	---	4.66		"	"	"	"	
Heptachlor epoxide	ND	---	4.66		"	"	"	"	
Methoxychlor	ND	---	14.0		"	"	"	"	Q-31
Chlordane (Technical)	ND	---	140		"	"	"	"	
Toxaphene (Total)	ND	---	140		"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			Recovery: 64 %	Limits: 42-129 %	"	"	"	"	
Decachlorobiphenyl (Surr)			82 %	Limits: 65-151 %	"	"	"	"	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Livingston G-121 ODOT 1 1/2" (A5F0817-01RE2)			Matrix: Soil		Batch: 5060887				
Acenaphthene	ND	---	2.79		ug/kg dry	1	07/01/15 11:19	EPA 8270D	
Acenaphthylene	ND	---	2.79		"	"	"	"	
Anthracene	ND	---	2.79		"	"	"	"	
Benz(a)anthracene	ND	---	2.79		"	"	"	"	
Benzo(a)pyrene	ND	---	4.18		"	"	"	"	
Benzo(b)fluoranthene	ND	---	4.18		"	"	"	"	
Benzo(k)fluoranthene	ND	---	4.18		"	"	"	"	
Benzo(g,h,i)perylene	ND	---	2.79		"	"	"	"	
Chrysene	ND	---	2.79		"	"	"	"	
Dibenz(a,h)anthracene	ND	---	2.79		"	"	"	"	
Fluoranthene	ND	---	2.79		"	"	"	"	
Fluorene	ND	---	2.79		"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	2.79		"	"	"	"	
1-Methylnaphthalene	ND	---	5.57		"	"	"	"	
2-Methylnaphthalene	ND	---	5.57		"	"	"	"	
Naphthalene	ND	---	5.57		"	"	"	"	
Phenanthrene	ND	---	2.79		"	"	"	"	
Pyrene	ND	---	2.79		"	"	"	"	
Carbazole	ND	---	4.18		"	"	"	"	
Dibenzofuran	ND	---	2.79		"	"	"	"	
4-Chloro-3-methylphenol	ND	---	27.9		"	"	"	"	
2-Chlorophenol	ND	---	13.9		"	"	"	"	
2,4-Dichlorophenol	ND	---	13.9		"	"	"	"	
2,4-Dimethylphenol	ND	---	13.9		"	"	"	"	
2,4-Dinitrophenol	ND	---	69.7		"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	---	69.7		"	"	"	"	
2-Methylphenol	ND	---	6.97		"	"	"	"	
3+4-Methylphenol(s)	ND	---	6.97		"	"	"	"	
2-Nitrophenol	ND	---	27.9		"	"	"	"	
4-Nitrophenol	ND	---	27.9		"	"	"	"	
Pentachlorophenol (PCP)	ND	---	27.9		"	"	"	"	
Phenol	ND	---	5.57		"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	---	13.9		"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	---	14.6		"	"	"	"	
2,4,5-Trichlorophenol	ND	---	13.9		"	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Livingston G-121 ODOT 1 1/2" (A5F0817-01RE2)			Matrix: Soil		Batch: 5060887				
2,4,6-Trichlorophenol	ND	---	13.9		ug/kg dry	1	"	EPA 8270D	
Bis(2-ethylhexyl)phthalate	ND	---	41.8		"	"	"	"	
Butyl benzyl phthalate	ND	---	27.9		"	"	"	"	
Diethylphthalate	ND	---	27.9		"	"	"	"	
Dimethylphthalate	ND	---	27.9		"	"	"	"	
Di-n-butylphthalate	ND	---	27.9		"	"	"	"	
Di-n-octyl phthalate	ND	---	27.9		"	"	"	"	
N-Nitrosodimethylamine	ND	---	6.97		"	"	"	"	
N-Nitroso-di-n-propylamine	ND	---	6.97		"	"	"	"	
N-Nitrosodiphenylamine	ND	---	6.97		"	"	"	"	
Bis(2-Chloroethoxy) methane	ND	---	6.97		"	"	"	"	
Bis(2-Chloroethyl) ether	ND	---	6.97		"	"	"	"	
Bis(2-Chloroisopropyl) ether	ND	---	6.97		"	"	"	"	
Hexachlorobenzene	ND	---	2.79		"	"	"	"	
Hexachlorobutadiene	ND	---	6.97		"	"	"	"	
Hexachlorocyclopentadiene	ND	---	13.9		"	"	"	"	
Hexachloroethane	ND	---	6.97		"	"	"	"	
2-Chloronaphthalene	ND	---	2.79		"	"	"	"	
1,2-Dichlorobenzene	ND	---	6.97		"	"	"	"	
1,3-Dichlorobenzene	ND	---	6.97		"	"	"	"	
1,4-Dichlorobenzene	ND	---	6.97		"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	6.97		"	"	"	"	
4-Bromophenyl phenyl ether	ND	---	6.97		"	"	"	"	
4-Chlorophenyl phenyl ether	ND	---	6.97		"	"	"	"	
Aniline	ND	---	13.9		"	"	"	"	
4-Chloroaniline	ND	---	6.97		"	"	"	"	
2-Nitroaniline	ND	---	55.7		"	"	"	"	
3-Nitroaniline	ND	---	55.7		"	"	"	"	
4-Nitroaniline	ND	---	55.7		"	"	"	"	
Nitrobenzene	ND	---	27.9		"	"	"	"	
2,4-Dinitrotoluene	ND	---	27.9		"	"	"	"	
2,6-Dinitrotoluene	ND	---	27.9		"	"	"	"	
Benzoic acid	ND	---	348		"	"	"	"	
Benzyl alcohol	ND	---	13.9		"	"	"	"	
Isophorone	ND	---	6.97		"	"	"	"	

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Project Manager: Terry RiceReported:
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Livingston G-121 ODOT 1 1/2" (A5F0817-01RE2)			Matrix: Soil		Batch: 5060887			
Azobenzene (1,2-DPH)	ND	---	6.97	ug/kg dry	1	"	EPA 8270D	
Bis(2-Ethylhexyl) adipate	ND	---	69.7	"	"	"	"	
3,3'-Dichlorobenzidine	ND	---	27.9	"	"	"	"	
1,2-Dinitrobenzene	ND	---	69.7	"	"	"	"	
1,3-Dinitrobenzene	ND	---	69.7	"	"	"	"	
1,4-Dinitrobenzene	ND	---	69.7	"	"	"	"	
Pyridine	ND	---	13.9	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 76 %</i>	<i>Limits: 37-122 %</i>	"	"	"	
<i>2-Fluorobiphenyl (Surr)</i>			<i>65 %</i>	<i>Limits: 44-115 %</i>	"	"	"	
<i>Phenol-d6 (Surr)</i>			<i>71 %</i>	<i>Limits: 33-122 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>82 %</i>	<i>Limits: 54-127 %</i>	"	"	"	
<i>2-Fluorophenol (Surr)</i>			<i>80 %</i>	<i>Limits: 35-115 %</i>	"	"	"	<i>Q-41</i>
<i>2,4,6-Tribromophenol (Surr)</i>			<i>65 %</i>	<i>Limits: 39-132 %</i>	"	"	"	
Daybreak G-109 Beach Backfill (A5F0817-02)			Matrix: Soil		Batch: 5060887			
Acenaphthene	ND	---	2.74	ug/kg dry	1	07/01/15 12:35	EPA 8270D	
Acenaphthylene	ND	---	2.74	"	"	"	"	
Anthracene	ND	---	2.74	"	"	"	"	
Benz(a)anthracene	ND	---	2.74	"	"	"	"	
Benzo(a)pyrene	ND	---	4.10	"	"	"	"	
Benzo(b)fluoranthene	ND	---	4.10	"	"	"	"	
Benzo(k)fluoranthene	ND	---	4.10	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	2.74	"	"	"	"	
Chrysene	ND	---	2.74	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	2.74	"	"	"	"	
Fluoranthene	ND	---	2.74	"	"	"	"	
Fluorene	ND	---	2.74	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	2.74	"	"	"	"	
1-Methylnaphthalene	ND	---	5.46	"	"	"	"	
2-Methylnaphthalene	ND	---	5.46	"	"	"	"	
Naphthalene	ND	---	5.46	"	"	"	"	
Phenanthrene	ND	---	2.74	"	"	"	"	
Pyrene	ND	---	2.74	"	"	"	"	
Carbazole	ND	---	4.10	"	"	"	"	
Dibenzofuran	ND	---	2.74	"	"	"	"	
4-Chloro-3-methylphenol	ND	---	27.4	"	"	"	"	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry Rice

Reported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting	Units	Dilution	Date Analyzed	Method	Notes
			Limit					
Daybreak G-109 Beach Backfill (A5F0817-02)			Matrix: Soil	Batch: 5060887				
2-Chlorophenol	ND	---	13.6	ug/kg dry	1	"	EPA 8270D	
2,4-Dichlorophenol	ND	---	13.6	"	"	"	"	
2,4-Dimethylphenol	ND	---	13.6	"	"	"	"	
2,4-Dinitrophenol	ND	---	68.3	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	---	68.3	"	"	"	"	
2-Methylphenol	ND	---	6.83	"	"	"	"	
3+4-Methylphenol(s)	ND	---	6.83	"	"	"	"	
2-Nitrophenol	ND	---	27.4	"	"	"	"	
4-Nitrophenol	ND	---	27.4	"	"	"	"	
Pentachlorophenol (PCP)	ND	---	27.4	"	"	"	"	
Phenol	ND	---	5.46	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	---	13.6	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	---	14.3	"	"	"	"	
2,4,5-Trichlorophenol	ND	---	13.6	"	"	"	"	
2,4,6-Trichlorophenol	ND	---	13.6	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	---	41.0	"	"	"	"	
Butyl benzyl phthalate	ND	---	27.4	"	"	"	"	
Diethylphthalate	ND	---	27.4	"	"	"	"	
Dimethylphthalate	ND	---	27.4	"	"	"	"	
Di-n-butylphthalate	ND	---	27.4	"	"	"	"	
Di-n-octyl phthalate	ND	---	27.4	"	"	"	"	
N-Nitrosodimethylamine	ND	---	6.83	"	"	"	"	
N-Nitroso-di-n-propylamine	ND	---	6.83	"	"	"	"	
N-Nitrosodiphenylamine	ND	---	6.83	"	"	"	"	
Bis(2-Chloroethoxy) methane	ND	---	6.83	"	"	"	"	
Bis(2-Chloroethyl) ether	ND	---	6.83	"	"	"	"	
Bis(2-Chloroisopropyl) ether	ND	---	6.83	"	"	"	"	
Hexachlorobenzene	ND	---	2.74	"	"	"	"	
Hexachlorobutadiene	ND	---	6.83	"	"	"	"	
Hexachlorocyclopentadiene	ND	---	13.6	"	"	"	"	
Hexachloroethane	ND	---	6.83	"	"	"	"	
2-Chloronaphthalene	ND	---	2.74	"	"	"	"	
1,2-Dichlorobenzene	ND	---	6.83	"	"	"	"	
1,3-Dichlorobenzene	ND	---	6.83	"	"	"	"	
1,4-Dichlorobenzene	ND	---	6.83	"	"	"	"	

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Daybreak G-109 Beach Backfill (A5F0817-02)			Matrix: Soil		Batch: 5060887			
1,2,4-Trichlorobenzene	ND	---	6.83	ug/kg dry	1	"	EPA 8270D	
4-Bromophenyl phenyl ether	ND	---	6.83	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	---	6.83	"	"	"	"	
Aniline	ND	---	13.6	"	"	"	"	
4-Chloroaniline	ND	---	6.83	"	"	"	"	
2-Nitroaniline	ND	---	54.6	"	"	"	"	
3-Nitroaniline	ND	---	54.6	"	"	"	"	
4-Nitroaniline	ND	---	54.6	"	"	"	"	
Nitrobenzene	ND	---	27.4	"	"	"	"	
2,4-Dinitrotoluene	ND	---	27.4	"	"	"	"	
2,6-Dinitrotoluene	ND	---	27.4	"	"	"	"	
Benzoic acid	ND	---	341	"	"	"	"	
Benzyl alcohol	ND	---	13.6	"	"	"	"	
Isophorone	ND	---	6.83	"	"	"	"	
Azobenzene (1,2-DPH)	ND	---	6.83	"	"	"	"	
Bis(2-Ethylhexyl) adipate	ND	---	68.3	"	"	"	"	
3,3'-Dichlorobenzidine	ND	---	27.4	"	"	"	"	
1,2-Dinitrobenzene	ND	---	68.3	"	"	"	"	
1,3-Dinitrobenzene	ND	---	68.3	"	"	"	"	
1,4-Dinitrobenzene	ND	---	68.3	"	"	"	"	
Pyridine	ND	---	13.6	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)			Recovery: 78 %	Limits: 37-122 %	"	"	"	
2-Fluorobiphenyl (Surr)			65 %	Limits: 44-115 %	"	"	"	
Phenol-d6 (Surr)			64 %	Limits: 33-122 %	"	"	"	
p-Terphenyl-d14 (Surr)			84 %	Limits: 54-127 %	"	"	"	
2-Fluorophenol (Surr)			74 %	Limits: 35-115 %	"	"	"	
2,4,6-Tribromophenol (Surr)			68 %	Limits: 39-132 %	"	"	"	Q-41

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Darrell Auvil For Darwin Thomas, Business Development Director

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Columbia West Engineering, Inc.

Project: Storedahl-Evraz

11917 NE 95th Street

Project Number: 100

Vancouver, WA 98682

Project Manager: Terry Rice

Reported:

07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Livingston G-121 Berm Backfill (A5F0817-03)			Matrix: Soil		Batch: 5060887				
Acenaphthene	ND	---	2.82		ug/kg dry	1	07/01/15 13:13	EPA 8270D	
Acenaphthylene	ND	---	2.82		"	"	"	"	
Anthracene	ND	---	2.82		"	"	"	"	
Benz(a)anthracene	ND	---	2.82		"	"	"	"	
Benzo(a)pyrene	ND	---	4.23		"	"	"	"	
Benzo(b)fluoranthene	ND	---	4.23		"	"	"	"	
Benzo(k)fluoranthene	ND	---	4.23		"	"	"	"	
Benzo(g,h,i)perylene	ND	---	2.82		"	"	"	"	
Chrysene	ND	---	2.82		"	"	"	"	
Dibenz(a,h)anthracene	ND	---	2.82		"	"	"	"	
Fluoranthene	ND	---	2.82		"	"	"	"	
Fluorene	ND	---	2.82		"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	2.82		"	"	"	"	
1-Methylnaphthalene	ND	---	5.64		"	"	"	"	
2-Methylnaphthalene	ND	---	5.64		"	"	"	"	
Naphthalene	ND	---	5.64		"	"	"	"	
Phenanthrene	ND	---	2.82		"	"	"	"	
Pyrene	ND	---	2.82		"	"	"	"	
Carbazole	ND	---	4.23		"	"	"	"	
Dibenzofuran	ND	---	2.82		"	"	"	"	
4-Chloro-3-methylphenol	ND	---	28.2		"	"	"	"	
2-Chlorophenol	ND	---	14.1		"	"	"	"	
2,4-Dichlorophenol	ND	---	14.1		"	"	"	"	
2,4-Dimethylphenol	ND	---	14.1		"	"	"	"	
2,4-Dinitrophenol	ND	---	70.5		"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	---	70.5		"	"	"	"	
2-Methylphenol	ND	---	7.05		"	"	"	"	
3+4-Methylphenol(s)	ND	---	7.05		"	"	"	"	
2-Nitrophenol	ND	---	28.2		"	"	"	"	
4-Nitrophenol	ND	---	28.2		"	"	"	"	
Pentachlorophenol (PCP)	ND	---	28.2		"	"	"	"	
Phenol	ND	---	5.64		"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	---	14.1		"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	---	14.8		"	"	"	"	
2,4,5-Trichlorophenol	ND	---	14.1		"	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
Livingston G-121 Berm Backfill (A5F0817-03)			Matrix: Soil		Batch: 5060887				
2,4,6-Trichlorophenol	ND	---	14.1		ug/kg dry	1	"	EPA 8270D	
Bis(2-ethylhexyl)phthalate	ND	---	42.3		"	"	"	"	
Butyl benzyl phthalate	ND	---	28.2		"	"	"	"	
Diethylphthalate	ND	---	28.2		"	"	"	"	
Dimethylphthalate	ND	---	28.2		"	"	"	"	
Di-n-butylphthalate	ND	---	28.2		"	"	"	"	
Di-n-octyl phthalate	ND	---	28.2		"	"	"	"	
N-Nitrosodimethylamine	ND	---	7.05		"	"	"	"	
N-Nitroso-di-n-propylamine	ND	---	7.05		"	"	"	"	
N-Nitrosodiphenylamine	ND	---	7.05		"	"	"	"	
Bis(2-Chloroethoxy) methane	ND	---	7.05		"	"	"	"	
Bis(2-Chloroethyl) ether	ND	---	7.05		"	"	"	"	
Bis(2-Chloroisopropyl) ether	ND	---	7.05		"	"	"	"	
Hexachlorobenzene	ND	---	2.82		"	"	"	"	
Hexachlorobutadiene	ND	---	7.05		"	"	"	"	
Hexachlorocyclopentadiene	ND	---	14.1		"	"	"	"	
Hexachloroethane	ND	---	7.05		"	"	"	"	
2-Chloronaphthalene	ND	---	2.82		"	"	"	"	
1,2-Dichlorobenzene	ND	---	7.05		"	"	"	"	
1,3-Dichlorobenzene	ND	---	7.05		"	"	"	"	
1,4-Dichlorobenzene	ND	---	7.05		"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	7.05		"	"	"	"	
4-Bromophenyl phenyl ether	ND	---	7.05		"	"	"	"	
4-Chlorophenyl phenyl ether	ND	---	7.05		"	"	"	"	
Aniline	ND	---	14.1		"	"	"	"	
4-Chloroaniline	ND	---	7.05		"	"	"	"	
2-Nitroaniline	ND	---	56.4		"	"	"	"	
3-Nitroaniline	ND	---	56.4		"	"	"	"	
4-Nitroaniline	ND	---	56.4		"	"	"	"	
Nitrobenzene	ND	---	28.2		"	"	"	"	
2,4-Dinitrotoluene	ND	---	28.2		"	"	"	"	
2,6-Dinitrotoluene	ND	---	28.2		"	"	"	"	
Benzoic acid	ND	---	352		"	"	"	"	
Benzyl alcohol	ND	---	14.1		"	"	"	"	
Isophorone	ND	---	7.05		"	"	"	"	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
Livingston G-121 Berm Backfill (A5F0817-03)			Matrix: Soil		Batch: 5060887			
Azobenzene (1,2-DPH)	ND	---	7.05	ug/kg dry	1	"	EPA 8270D	Q-42
Bis(2-Ethylhexyl) adipate	ND	---	70.5	"	"	"	"	
3,3'-Dichlorobenzidine	ND	---	28.2	"	"	"	"	
1,2-Dinitrobenzene	ND	---	70.5	"	"	"	"	
1,3-Dinitrobenzene	ND	---	70.5	"	"	"	"	
1,4-Dinitrobenzene	ND	---	70.5	"	"	"	"	
Pyridine	ND	---	14.1	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 62 %		Limits: 37-122 %	"	"	"	Q-41
2-Fluorobiphenyl (Surr)		51 %		Limits: 44-115 %	"	"	"	
Phenol-d6 (Surr)		53 %		Limits: 33-122 %	"	"	"	
p-Terphenyl-d14 (Surr)		70 %		Limits: 54-127 %	"	"	"	
2-Fluorophenol (Surr)		71 %		Limits: 35-115 %	"	"	"	
2,4,6-Tribromophenol (Surr)		59 %		Limits: 39-132 %	"	"	"	

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Livingston G-121 ODOT 1 1/2" (A5F0817-01)			Matrix: Soil					
Batch: 5060840								
Arsenic	1.02	---	1.02	mg/kg dry	10	07/02/15 03:22	EPA 6020A	
Barium	41.8	---	1.02	"	"	"	"	
Chromium	ND	---	4.06	"	"	"	"	
Copper	98.2	---	1.02	"	"	"	"	
Lead	2.42	---	0.203	"	"	"	"	
Manganese	204	---	1.02	"	"	"	"	
Mercury	ND	---	0.0813	"	"	"	"	
Selenium	ND	---	2.03	"	"	"	"	
Silver	ND	---	0.203	"	"	"	"	
Zinc	30.0	---	4.06	"	"	"	"	
Livingston G-121 ODOT 1 1/2" (A5F0817-01RE1)			Matrix: Soil					
Batch: 5060840								
Cadmium	0.234	---	0.203	mg/kg dry	10	07/06/15 13:12	EPA 6020A	
Daybreak G-109 Beach Backfill (A5F0817-02)			Matrix: Soil					
Batch: 5060840								
Arsenic	59.0	---	1.02	mg/kg dry	10	07/02/15 03:26	EPA 6020A	
Barium	74.4	---	1.02	"	"	"	"	
Chromium	9.69	---	4.09	"	"	"	"	
Lead	3.47	---	0.205	"	"	"	"	
Mercury	ND	---	0.0818	"	"	"	"	
Selenium	ND	---	2.05	"	"	"	"	
Silver	ND	---	0.205	"	"	"	"	
Daybreak G-109 Beach Backfill (A5F0817-02RE1)			Matrix: Soil					
Batch: 5060840								
Cadmium	ND	---	0.205	mg/kg dry	10	07/06/15 13:24	EPA 6020A	
Daybreak G-109 Beach Backfill (A5F0817-02RE2)			Matrix: Soil					
Batch: 5070183								
Arsenic	4.45	---	0.995	mg/kg dry	10	07/09/15 14:26	EPA 6020A	
Barium	68.2	---	0.995	"	"	"	"	
Cadmium	ND	---	0.995	"	"	"	"	
Chromium	9.51	---	0.995	"	"	"	"	
Lead	3.28	---	0.995	"	"	"	"	
Mercury	ND	---	0.0796	"	"	"	"	
Selenium	ND	---	1.99	"	"	"	"	

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Daybreak G-109 Beach Backfill (A5F0817-02RE2)			Matrix: Soil					
Silver	ND	---	0.995	mg/kg dry	10	"	EPA 6020A	
Livingston G-121 Berm Backfill (A5F0817-03)			Matrix: Soil					
Batch: 5060840								
Arsenic	1.65	---	1.10	mg/kg dry	10	07/02/15 03:31	EPA 6020A	Q-42
Barium	59.4	---	1.10	"	"	"	"	
Chromium	ND	---	4.42	"	"	"	"	
Copper	24.5	---	1.10	"	"	"	"	
Lead	2.50	---	0.221	"	"	"	"	
Manganese	210	---	1.10	"	"	"	"	
Mercury	ND	---	0.0884	"	"	"	"	
Selenium	ND	---	2.21	"	"	"	"	
Silver	ND	---	0.221	"	"	"	"	
Zinc	33.3	---	4.42	"	"	"	"	
Livingston G-121 Berm Backfill (A5F0817-03RE1)			Matrix: Soil					
Batch: 5060840								
Cadmium	ND	---	0.221	mg/kg dry	10	07/06/15 13:27	EPA 6020A	



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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Livingston G-121 ODOT 1 1/2" (A5F0817-01)			Matrix: Soil	Batch: 5060845				
% Solids	95.4	---	1.00	% by Weight	1	06/30/15 09:34	EPA 8000C	
Daybreak G-109 Beach Backfill (A5F0817-02)			Matrix: Soil	Batch: 5060845				
% Solids	97.4	---	1.00	% by Weight	1	06/30/15 09:34	EPA 8000C	
Livingston G-121 Berm Backfill (A5F0817-03)			Matrix: Soil	Batch: 5060845				
% Solids	94.5	---	1.00	% by Weight	1	06/30/15 09:34	EPA 8000C	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060841 - EPA 3546						Soil						
Blank (5060841-BLK1)						Prepared: 06/29/15 10:42		Analyzed: 06/29/15 17:48			C-07	
EPA 8082A												
Aroclor 1016	ND	---	9.09	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	---	9.09	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 104 %		Limits: 72-126 %		Dilution: 1x						
LCS (5060841-BS1)						Prepared: 06/29/15 10:42		Analyzed: 06/29/15 18:06			C-07	
EPA 8082A												
Aroclor 1016	186	---	10.0	ug/kg wet	1	250	---	75	47-134%	---	---	
Aroclor 1260	244	---	10.0	"	"	"	---	98	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 109 %		Limits: 72-126 %		Dilution: 1x						
Matrix Spike (5060841-MS1)						Prepared: 06/29/15 10:42		Analyzed: 06/29/15 22:03			C-07	
QC Source Sample: Livingston G-121 Berm Backfill (ASF0817-03)												
EPA 8082A												
Aroclor 1016	172	---	10.6	ug/kg dry	1	264	ND	65	47-134%	---	---	
Aroclor 1260	215	---	10.6	"	"	"	ND	81	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 90 %		Limits: 72-126 %		Dilution: 1x						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060863 - EPA 3546						Soil						
Blank (5060863-BLK1)						Prepared: 06/30/15 06:55 Analyzed: 07/02/15 14:16						
EPA 8081B												
Aldrin	ND	---	0.833	ug/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	---	0.833	"	"	---	---	---	---	---	---	
beta-BHC	ND	---	0.833	"	"	---	---	---	---	---	---	
delta-BHC	ND	---	0.833	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	---	0.833	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	---	0.833	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	---	0.833	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	---	0.833	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	---	0.833	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	---	0.833	"	"	---	---	---	---	---	---	
Dieldrin	ND	---	0.833	"	"	---	---	---	---	---	---	
Endosulfan I	ND	---	0.833	"	"	---	---	---	---	---	---	
Endosulfan II	ND	---	0.833	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	---	0.833	"	"	---	---	---	---	---	---	
Endrin	ND	---	0.833	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	---	0.833	"	"	---	---	---	---	---	---	
Endrin ketone	ND	---	0.833	"	"	---	---	---	---	---	---	
Heptachlor	ND	---	0.833	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	---	0.833	"	"	---	---	---	---	---	---	
Methoxychlor	ND	---	2.50	"	"	---	---	---	---	---	---	Q-31
Chlordane (Technical)	ND	---	25.0	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	---	25.0	"	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 99 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		105 %		65-151 %		"						

LCS (5060863-BS1)

Prepared: 06/30/15 06:55 Analyzed: 07/02/15 14:35

EPA 8081B												
Aldrin	44.7	---	1.00	ug/kg wet	1	50.0	---	89	45-136%	---	---	
alpha-BHC	55.9	---	1.00	"	"	"	---	112	45-137%	---	---	
beta-BHC	53.0	---	1.00	"	"	"	---	106	50-136%	---	---	
delta-BHC	49.0	---	1.00	"	"	"	---	98	47-139%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060863 - EPA 3546						Soil						
LCS (5060863-BS1)						Prepared: 06/30/15 06:55 Analyzed: 07/02/15 14:35						
gamma-BHC (Lindane)	54.6	---	1.00	"	"	"	---	109	49-135%	---	---	
cis-Chlordane	52.3	---	1.00	"	"	"	---	105	54-133%	---	---	
trans-Chlordane	52.8	---	1.00	"	"	"	---	106	53-135%	---	---	
4,4'-DDD	52.8	---	1.00	"	"	"	---	106	56-139%	---	---	
4,4'-DDE	54.4	---	1.00	"	"	"	---	109	56-134%	---	---	
4,4'-DDT	53.8	---	1.00	"	"	"	---	108	50-141%	---	---	Q-31
Dieldrin	55.8	---	1.00	"	"	"	---	112	56-136%	---	---	
Endosulfan I	53.2	---	1.00	"	"	"	---	106	52-132%	---	---	
Endosulfan II	58.2	---	1.00	"	"	"	---	116	53-134%	---	---	
Endosulfan sulfate	57.9	---	1.00	"	"	"	---	116	55-136%	---	---	
Endrin	57.8	---	1.00	"	"	"	---	116	56-140%	---	---	
Endrin Aldehyde	52.6	---	1.00	"	"	"	---	105	35-137%	---	---	
Endrin ketone	55.3	---	1.00	"	"	"	---	111	55-136%	---	---	Q-41
Heptachlor	52.6	---	1.00	"	"	"	---	105	47-136%	---	---	
Heptachlor epoxide	52.8	---	1.00	"	"	"	---	106	52-136%	---	---	
Methoxychlor	55.4	---	3.00	"	"	"	---	111	52-143%	---	---	Q-31
Surr: 2,4,5,6-TCMX (Surr)			Recovery: 94 %		Limits: 42-129 %		Dilution: 1x					
Decachlorobiphenyl (Surr)			101 %		65-151 %		"					

Duplicate (5060863-DUP1)

Prepared: 06/30/15 06:55 Analyzed: 07/02/15 15:11

QC Source Sample: Livingston G-121 ODOT 1 1/2" (A5F0817-01)

EPA 8081B

Aldrin	ND	---	4.93	ug/kg dry	5	---	ND	---	---	---	30%
alpha-BHC	ND	---	4.93	"	"	---	ND	---	---	---	30%
beta-BHC	ND	---	4.93	"	"	---	ND	---	---	---	30%
delta-BHC	ND	---	4.93	"	"	---	ND	---	---	---	30%
gamma-BHC (Lindane)	ND	---	4.93	"	"	---	ND	---	---	---	30%
cis-Chlordane	ND	---	4.93	"	"	---	ND	---	---	---	30%
trans-Chlordane	ND	---	4.93	"	"	---	ND	---	---	---	30%
4,4'-DDD	ND	---	4.93	"	"	---	ND	---	---	---	30%
4,4'-DDE	ND	---	4.93	"	"	---	ND	---	---	---	30%
4,4'-DDT	ND	---	4.93	"	"	---	ND	---	---	---	30%

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060863 - EPA 3546						Soil						
Duplicate (5060863-DUP1)				Prepared: 06/30/15 06:55		Analyzed: 07/02/15 15:11						
QC Source Sample: Livingston G-121 ODOT 1 1/2" (A5F0817-01)												
Dieldrin	ND	---	4.93	"	"	---	ND	---	---	---	30%	Q-31
Endosulfan I	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Endosulfan II	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Endrin	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Endrin Aldehyde	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Endrin ketone	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Heptachlor	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Heptachlor epoxide	ND	---	4.93	"	"	---	ND	---	---	---	30%	
Methoxychlor	ND	---	14.8	"	"	---	ND	---	---	---	30%	
Chlordane (Technical)	ND	---	148	"	"	---	ND	---	---	---	30%	
Toxaphene (Total)	ND	---	148	"	"	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 70 %		Limits: 42-129 %		Dilution: 5x						
Decachlorobiphenyl (Surr)		91 %		65-151 %		"						

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Project Number: 100
Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Blank (5060887-BLK2)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 09:50						
EPA 8270D												
Acenaphthene	ND	---	2.50	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	2.50	"	"	---	---	---	---	---	---	
Anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	3.75	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	3.75	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	3.75	"	"	---	---	---	---	---	---	
Benzo(b+k)fluoranthene(s)	ND	---	7.50	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	2.50	"	"	---	---	---	---	---	---	
Chrysene	ND	---	2.50	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Fluoranthene	ND	---	2.50	"	"	---	---	---	---	---	---	
Fluorene	ND	---	2.50	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	2.50	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	5.00	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	5.00	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	5.00	"	"	---	---	---	---	---	---	
Phenanthrene	ND	---	2.50	"	"	---	---	---	---	---	---	
Pyrene	ND	---	2.50	"	"	---	---	---	---	---	---	
Carbazole	ND	---	3.75	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	---	2.50	"	"	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	25.0	"	"	---	---	---	---	---	---	
2-Chlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	62.5	"	"	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	62.5	"	"	---	---	---	---	---	---	
2-Methylphenol	ND	---	6.25	"	"	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	6.25	"	"	---	---	---	---	---	---	
2-Nitrophenol	ND	---	25.0	"	"	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Blank (5060887-BLK2)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 09:50						
4-Nitrophenol	ND	---	25.0	ug/kg wet	"	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	25.0	"	"	---	---	---	---	---	---	
Phenol	ND	---	5.00	"	"	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	---	13.1	"	"	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	37.5	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	6.25	"	"	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	6.25	"	"	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Chloroisopropyl) ether	ND	---	6.25	"	"	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	2.50	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	6.25	"	"	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	12.5	"	"	---	---	---	---	---	---	
Hexachloroethane	ND	---	6.25	"	"	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	2.50	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Blank (5060887-BLK2)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 09:50						
4-Bromophenyl phenyl ether	ND	---	6.25	ug/kg wet	"	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	6.25	"	"	---	---	---	---	---	---	
Aniline	ND	---	12.5	"	"	---	---	---	---	---	---	
4-Chloroaniline	ND	---	6.25	"	"	---	---	---	---	---	---	
2-Nitroaniline	ND	---	50.0	"	"	---	---	---	---	---	---	
3-Nitroaniline	ND	---	50.0	"	"	---	---	---	---	---	---	
4-Nitroaniline	ND	---	50.0	"	"	---	---	---	---	---	---	
Nitrobenzene	ND	---	25.0	"	"	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	25.0	"	"	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	25.0	"	"	---	---	---	---	---	---	
Benzoic acid	ND	---	312	"	"	---	---	---	---	---	---	
Benzyl alcohol	ND	---	12.5	"	"	---	---	---	---	---	---	
Isophorone	ND	---	6.25	"	"	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	62.5	"	"	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	25.0	"	"	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	---	62.5	"	"	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	62.5	"	"	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	62.5	"	"	---	---	---	---	---	---	
Pyridine	ND	---	12.5	"	"	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>												
			Recovery: 72 %	Limits: 37-122 %	Dilution: 1x							
<i>2-Fluorobiphenyl (Surr)</i>			68 %	44-115 %	"							
<i>Phenol-d6 (Surr)</i>			66 %	33-122 %	"							
<i>p-Terphenyl-d14 (Surr)</i>			90 %	54-127 %	"							
<i>2-Fluorophenol (Surr)</i>			72 %	35-115 %	"							
<i>2,4,6-Tribromophenol (Surr)</i>			93 %	39-132 %	"							

Q-41

LCS (5060887-BS2)

Prepared: 06/30/15 12:06 Analyzed: 07/01/15 10:29

EPA 8270D

Acenaphthene	412	---	2.67	ug/kg wet	1	533	---	77	40-122%	---	---
Acenaphthylene	400	---	2.67	"	"	"	---	75	32-132%	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
LCS (5060887-BS2)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 10:29						
Anthracene	428	---	2.67	ug/kg wet	"	"	---	80	47-123%	---	---	
Benz(a)anthracene	480	---	2.67	"	"	"	---	90	49-126%	---	---	
Benzo(a)pyrene	491	---	4.00	"	"	"	---	92	45-129%	---	---	
Benzo(b)fluoranthene	494	---	4.00	"	"	"	---	93	45-132%	---	---	
Benzo(k)fluoranthene	466	---	4.00	"	"	"	---	87	47-132%	---	---	
Benzo(b+k)fluoranthene(s)	976	---	8.00	"	"	1070	---	92	45-132%	---	---	
Benzo(g,h,i)perylene	472	---	2.67	"	"	533	---	89	43-134%	---	---	
Chrysene	467	---	2.67	"	"	"	---	88	50-124%	---	---	
Dibenz(a,h)anthracene	466	---	2.67	"	"	"	---	87	45-134%	---	---	
Fluoranthene	445	---	2.67	"	"	"	---	83	50-127%	---	---	
Fluorene	405	---	2.67	"	"	"	---	76	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	456	---	2.67	"	"	"	---	85	45-133%	---	---	
1-Methylnaphthalene	402	---	5.33	"	"	"	---	75	40-120%	---	---	
2-Methylnaphthalene	421	---	5.33	"	"	"	---	79	38-122%	---	---	
Naphthalene	380	---	5.33	"	"	"	---	71	35-123%	---	---	
Phenanthrene	398	---	2.67	"	"	"	---	75	50-121%	---	---	
Pyrene	422	---	2.67	"	"	"	---	79	47-127%	---	---	
Carbazole	448	---	4.00	"	"	"	---	84	50-122%	---	---	
Dibenzofuran	395	---	2.67	"	"	"	---	74	44-120%	---	---	
4-Chloro-3-methylphenol	520	---	26.7	"	"	"	---	98	45-122%	---	---	
2-Chlorophenol	449	---	13.3	"	"	"	---	84	34-121%	---	---	
2,4-Dichlorophenol	470	---	13.3	"	"	"	---	88	40-122%	---	---	
2,4-Dimethylphenol	506	---	13.3	"	"	"	---	95	30-127%	---	---	
2,4-Dinitrophenol	543	---	66.7	"	"	"	---	102	5-137%	---	---	
4,6-Dinitro-2-methylphenol	495	---	66.7	"	"	"	---	93	29-132%	---	---	
2-Methylphenol	495	---	6.67	"	"	"	---	93	32-122%	---	---	
3+4-Methylphenol(s)	507	---	6.67	"	"	"	---	95	34-120%	---	---	
2-Nitrophenol	456	---	26.7	"	"	"	---	86	36-123%	---	---	
4-Nitrophenol	513	---	26.7	"	"	"	---	96	30-132%	---	---	
Pentachlorophenol (PCP)	511	---	26.7	"	"	"	---	96	25-133%	---	---	
Phenol	520	---	5.33	"	"	"	---	98	34-120%	---	---	Q-41

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Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
LCS (5060887-BS2)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 10:29						
2,3,4,6-Tetrachlorophenol	477	---	13.3	ug/kg wet	"	"	---	89	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	472	---	14.0	"	"	"	---	89	40-120%	---	---	
2,4,5-Trichlorophenol	487	---	13.3	"	"	"	---	91	41-124%	---	---	
2,4,6-Trichlorophenol	475	---	13.3	"	"	"	---	89	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	522	---	40.0	"	"	"	---	98	51-133%	---	---	
Butyl benzyl phthalate	526	---	26.7	"	"	"	---	99	48-132%	---	---	
Diethylphthalate	461	---	26.7	"	"	"	---	86	50-124%	---	---	
Dimethylphthalate	464	---	26.7	"	"	"	---	87	48-124%	---	---	
Di-n-butylphthalate	479	---	26.7	"	"	"	---	90	51-128%	---	---	
Di-n-octyl phthalate	486	---	26.7	"	"	"	---	91	44-140%	---	---	
N-Nitrosodimethylamine	521	---	6.67	"	"	"	---	98	23-120%	---	---	Q-41
N-Nitroso-di-n-propylamine	529	---	6.67	"	"	"	---	99	36-120%	---	---	Q-41
N-Nitrosodiphenylamine	454	---	6.67	"	"	"	---	85	38-127%	---	---	
Bis(2-Chloroethoxy) methane	456	---	6.67	"	"	"	---	85	36-121%	---	---	
Bis(2-Chloroethyl) ether	414	---	6.67	"	"	"	---	78	31-120%	---	---	
Bis(2-Chloroisopropyl) ether	522	---	6.67	"	"	"	---	98	33-131%	---	---	Q-41
Hexachlorobenzene	474	---	2.67	"	"	"	---	89	44-122%	---	---	
Hexachlorobutadiene	430	---	6.67	"	"	"	---	81	32-123%	---	---	
Hexachlorocyclopentadiene	582	---	13.3	"	"	"	---	109	5-140%	---	---	Q-41
Hexachloroethane	436	---	6.67	"	"	"	---	82	28-120%	---	---	
2-Chloronaphthalene	402	---	2.67	"	"	"	---	75	41-120%	---	---	
1,2-Dichlorobenzene	385	---	6.67	"	"	"	---	72	33-120%	---	---	
1,3-Dichlorobenzene	395	---	6.67	"	"	"	---	74	30-120%	---	---	
1,4-Dichlorobenzene	395	---	6.67	"	"	"	---	74	31-120%	---	---	
1,2,4-Trichlorobenzene	378	---	6.67	"	"	"	---	71	34-120%	---	---	
4-Bromophenyl phenyl ether	491	---	6.67	"	"	"	---	92	46-124%	---	---	
4-Chlorophenyl phenyl ether	434	---	6.67	"	"	"	---	81	45-121%	---	---	
Aniline	412	---	13.3	"	"	"	---	77	7-120%	---	---	

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Project Number: 100
Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
LCS (5060887-BS2)				Prepared: 06/30/15 12:06 Analyzed: 07/01/15 10:29								
4-Chloroaniline	382	---	6.67	ug/kg wet	"	"	---	72	16-120%	---	---	
2-Nitroaniline	458	---	53.3	"	"	"	---	86	44-127%	---	---	
3-Nitroaniline	426	---	53.3	"	"	"	---	80	33-120%	---	---	
4-Nitroaniline	480	---	53.3	"	"	"	---	90	35-120%	---	---	
Nitrobenzene	494	---	26.7	"	"	"	---	93	34-122%	---	---	Q-41
2,4-Dinitrotoluene	484	---	26.7	"	"	"	---	91	48-126%	---	---	
2,6-Dinitrotoluene	482	---	26.7	"	"	"	---	90	46-124%	---	---	
Benzoic acid	ND	---	333	"	"	1070	---	16	5-140%	---	---	
Benzyl alcohol	519	---	13.3	"	"	533	---	97	29-122%	---	---	
Isophorone	519	---	6.67	"	"	"	---	97	30-122%	---	---	Q-41
Azobenzene (1,2-DPH)	527	---	6.67	"	"	"	---	99	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	510	---	66.7	"	"	"	---	96	60-121%	---	---	
3,3'-Dichlorobenzidine	961	---	26.7	"	"	1070	---	90	22-121%	---	---	
1,2-Dinitrobenzene	468	---	66.7	"	"	533	---	88	44-120%	---	---	
1,3-Dinitrobenzene	481	---	66.7	"	"	"	---	90	42-127%	---	---	
1,4-Dinitrobenzene	492	---	66.7	"	"	"	---	92	37-132%	---	---	
Pyridine	417	---	13.3	"	"	"	---	78	5-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 90 %		Limits: 37-122 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		75 %		44-115 %		"						
Phenol-d6 (Surr)		92 %		33-122 %		"						
p-Terphenyl-d14 (Surr)		108 %		54-127 %		"						
2-Fluorophenol (Surr)		93 %		35-115 %		"						
2,4,6-Tribromophenol (Surr)		107 %		39-132 %		"						
Q-41												
Duplicate (5060887-DUP1)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 11:57						
QC Source Sample: Livingston G-121 ODOT 1 1/2" (A5F0817-01)												
EPA 8270D												
Acenaphthene	ND	---	2.79	ug/kg dry	1	---	ND	---	---	---	30%	
Acenaphthylene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Anthracene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	4.17	"	"	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Duplicate (5060887-DUP1)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 11:57						
QC Source Sample: Livingston G-121 ODOT 1 1/2" (A5F0817-01)												
Benzo(b)fluoranthene	ND	---	4.17	ug/kg dry	"	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	4.17	"	"	---	ND	---	---	---	30%	
Benzo(b+k)fluoranthene(s)	ND	---	8.35	"	"	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Chrysene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Fluoranthene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Fluorene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	---	5.56	"	"	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	---	5.56	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	5.56	"	"	---	ND	---	---	---	30%	
Phenanthrene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Pyrene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Carbazole	ND	---	4.17	"	"	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	2.79	"	"	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	---	27.9	"	"	---	ND	---	---	---	30%	
2-Chlorophenol	ND	---	13.9	"	"	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	---	13.9	"	"	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	---	13.9	"	"	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	---	69.6	"	"	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	---	69.6	"	"	---	ND	---	---	---	30%	
2-Methylphenol	ND	---	6.96	"	"	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	---	6.96	"	"	---	ND	---	---	---	30%	
2-Nitrophenol	ND	---	27.9	"	"	---	ND	---	---	---	30%	
4-Nitrophenol	ND	---	27.9	"	"	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	---	27.9	"	"	---	ND	---	---	---	30%	
Phenol	ND	---	5.56	"	"	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	---	13.9	"	"	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	---	14.6	"	"	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Duplicate (5060887-DUP1)				Prepared: 06/30/15 12:06 Analyzed: 07/01/15 11:57								
QC Source Sample: Livingston G-121 ODOT 1 1/2" (A5F0817-01)												
2,4,5-Trichlorophenol	ND	---	13.9	ug/kg dry	"	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	---	13.9	"	"	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	---	41.7	"	"	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	---	27.9	"	"	---	ND	---	---	---	30%	
Diethylphthalate	ND	---	27.9	"	"	---	ND	---	---	---	30%	
Dimethylphthalate	ND	---	27.9	"	"	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	---	27.9	"	"	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	---	27.9	"	"	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	---	6.96	"	"	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	---	6.96	"	"	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroisopropyl) ether	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	---	13.9	"	"	---	ND	---	---	---	30%	
Hexachloroethane	ND	---	6.96	"	"	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	---	2.79	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	6.96	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	6.96	"	"	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	6.96	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	6.96	"	"	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	---	6.96	"	"	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Aniline	ND	---	13.9	"	"	---	ND	---	---	---	30%	
4-Chloroaniline	ND	---	6.96	"	"	---	ND	---	---	---	30%	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Duplicate (5060887-DUP1)				Prepared: 06/30/15 12:06 Analyzed: 07/01/15 11:57								
QC Source Sample: Livingston G-121 ODOT 1 1/2" (A5F0817-01)												
2-Nitroaniline	ND	---	55.6	ug/kg dry	"	---	ND	---	---	---	30%	
3-Nitroaniline	ND	---	55.6	"	"	---	ND	---	---	---	30%	
4-Nitroaniline	ND	---	55.6	"	"	---	ND	---	---	---	30%	
Nitrobenzene	ND	---	27.9	"	"	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	---	27.9	"	"	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	---	27.9	"	"	---	ND	---	---	---	30%	
Benzoic acid	ND	---	347	"	"	---	ND	---	---	---	30%	
Benzyl alcohol	ND	---	13.9	"	"	---	ND	---	---	---	30%	
Isophorone	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	---	6.96	"	"	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	---	69.6	"	"	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	---	27.9	"	"	---	ND	---	---	---	30%	
1,2-Dinitrobenzene	ND	---	69.6	"	"	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	---	69.6	"	"	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	---	69.6	"	"	---	ND	---	---	---	30%	
Pyridine	ND	---	13.9	"	"	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 73 %		Limits: 37-122 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		60 %		44-115 %		"						
Phenol-d6 (Surr)		64 %		33-122 %		"						
p-Terphenyl-d14 (Surr)		77 %		54-127 %		"						
2-Fluorophenol (Surr)		79 %		35-115 %		"						
2,4,6-Tribromophenol (Surr)		65 %		39-132 %		"						

Q-41

Q-41

Matrix Spike (5060887-MS1)

Prepared: 06/30/15 12:06 Analyzed: 07/01/15 13:51

QC Source Sample: Livingston G-121 Berm Backfill (A5F0817-03)

EPA 8270D

Acenaphthene	446	---	8.46	ug/kg dry	3	564	ND	79	40-122%	---	---
Acenaphthylene	458	---	8.46	"	"	"	ND	81	32-132%	---	---
Anthracene	472	---	8.46	"	"	"	ND	84	47-123%	---	---
Benz(a)anthracene	452	---	8.46	"	"	"	ND	80	49-126%	---	---
Benzo(a)pyrene	500	---	12.7	"	"	"	ND	89	45-129%	---	---

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Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Matrix Spike (5060887-MS1)				Prepared: 06/30/15 12:06			Analyzed: 07/01/15 13:51					
QC Source Sample: Livingston G-121 Berm Backfill (A5F0817-03)												
Benzo(b)fluoranthene	486	---	12.7	ug/kg dry	"	"	ND	86	45-132%	---	---	
Benzo(k)fluoranthene	471	---	12.7	"	"	"	ND	84	47-132%	---	---	
Benzo(b+k)fluoranthene(s)	955	---	25.4	"	"	1130	ND	85	45-132%	---	---	
Benzo(g,h,i)perylene	453	---	8.46	"	"	564	ND	80	43-134%	---	---	
Chrysene	427	---	8.46	"	"	"	ND	76	50-124%	---	---	
Dibenz(a,h)anthracene	449	---	8.46	"	"	"	ND	80	45-134%	---	---	
Fluoranthene	473	---	8.46	"	"	"	ND	84	50-127%	---	---	
Fluorene	463	---	8.46	"	"	"	ND	82	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	435	---	8.46	"	"	"	ND	77	45-133%	---	---	
1-Methylnaphthalene	427	---	16.9	"	"	"	ND	76	40-120%	---	---	
2-Methylnaphthalene	442	---	16.9	"	"	"	ND	78	38-122%	---	---	
Naphthalene	431	---	16.9	"	"	"	ND	77	35-123%	---	---	
Phenanthrene	449	---	8.46	"	"	"	ND	80	50-121%	---	---	
Pyrene	477	---	8.46	"	"	"	ND	85	47-127%	---	---	
Carbazole	488	---	12.7	"	"	"	ND	87	50-122%	---	---	
Dibenzofuran	443	---	8.46	"	"	"	ND	79	44-120%	---	---	
4-Chloro-3-methylphenol	541	---	84.6	"	"	"	ND	96	45-122%	---	---	Q-41
2-Chlorophenol	471	---	42.2	"	"	"	ND	84	34-121%	---	---	
2,4-Dichlorophenol	452	---	42.2	"	"	"	ND	80	40-122%	---	---	
2,4-Dimethylphenol	407	---	42.2	"	"	"	ND	72	30-127%	---	---	
2,4-Dinitrophenol	412	---	211	"	"	"	ND	73	5-137%	---	---	Q-41
4,6-Dinitro-2-methylphenol	485	---	211	"	"	"	ND	86	29-132%	---	---	Q-41
2-Methylphenol	466	---	21.1	"	"	"	ND	83	32-122%	---	---	
3+4-Methylphenol(s)	476	---	21.1	"	"	"	ND	84	34-120%	---	---	
2-Nitrophenol	449	---	84.6	"	"	"	ND	80	36-123%	---	---	
4-Nitrophenol	454	---	84.6	"	"	"	ND	80	30-132%	---	---	
Pentachlorophenol (PCP)	386	---	84.6	"	"	"	ND	68	25-133%	---	---	
Phenol	497	---	16.9	"	"	"	ND	88	34-120%	---	---	
2,3,4,6-Tetrachlorophenol	452	---	42.2	"	"	"	ND	80	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	446	---	44.4	"	"	"	ND	79	40-120%	---	---	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Matrix Spike (5060887-MS1)				Prepared: 06/30/15 12:06 Analyzed: 07/01/15 13:51								
QC Source Sample: Livingston G-121 Berm Backfill (A5F0817-03)												
2,4,5-Trichlorophenol	513	---	42.2	ug/kg dry	"	"	ND	91	41-124%	---	---	
2,4,6-Trichlorophenol	488	---	42.2	"	"	"	ND	86	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	516	---	127	"	"	"	ND	92	51-133%	---	---	
Butyl benzyl phthalate	527	---	84.6	"	"	"	ND	94	48-132%	---	---	
Diethylphthalate	491	---	84.6	"	"	"	ND	87	50-124%	---	---	
Dimethylphthalate	478	---	84.6	"	"	"	ND	85	48-124%	---	---	
Di-n-butylphthalate	514	---	84.6	"	"	"	ND	91	51-128%	---	---	
Di-n-octyl phthalate	610	---	84.6	"	"	"	ND	108	44-140%	---	---	Q-41
N-Nitrosodimethylamine	451	---	21.1	"	"	"	ND	80	23-120%	---	---	
N-Nitroso-di-n-propylamine	555	---	21.1	"	"	"	ND	99	36-120%	---	---	Q-41
N-Nitrosodiphenylamine	485	---	21.1	"	"	"	ND	86	38-127%	---	---	
Bis(2-Chloroethoxy) methane	464	---	21.1	"	"	"	ND	82	36-121%	---	---	
Bis(2-Chloroethyl) ether	464	---	21.1	"	"	"	ND	82	31-120%	---	---	
Bis(2-Chloroisopropyl) ether	608	---	21.1	"	"	"	ND	108	33-131%	---	---	Q-41
Hexachlorobenzene	385	---	8.46	"	"	"	ND	68	44-122%	---	---	
Hexachlorobutadiene	398	---	21.1	"	"	"	ND	71	32-123%	---	---	
Hexachlorocyclopentadiene	460	---	42.2	"	"	"	ND	82	5-140%	---	---	
Hexachloroethane	464	---	21.1	"	"	"	ND	82	28-120%	---	---	
2-Chloronaphthalene	415	---	8.46	"	"	"	ND	74	41-120%	---	---	
1,2-Dichlorobenzene	423	---	21.1	"	"	"	ND	75	33-120%	---	---	
1,3-Dichlorobenzene	411	---	21.1	"	"	"	ND	73	30-120%	---	---	
1,4-Dichlorobenzene	416	---	21.1	"	"	"	ND	74	31-120%	---	---	
1,2,4-Trichlorobenzene	390	---	21.1	"	"	"	ND	69	34-120%	---	---	
4-Bromophenyl phenyl ether	424	---	21.1	"	"	"	ND	75	46-124%	---	---	
4-Chlorophenyl phenyl ether	429	---	21.1	"	"	"	ND	76	45-121%	---	---	
Aniline	375	---	42.2	"	"	"	ND	66	7-120%	---	---	
4-Chloroaniline	341	---	21.1	"	"	"	ND	61	16-120%	---	---	

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Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz

Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060887 - EPA 3546						Soil						
Matrix Spike (5060887-MS1)						Prepared: 06/30/15 12:06 Analyzed: 07/01/15 13:51						
QC Source Sample: Livingston G-121 Berm Backfill (A5F0817-03)												
2-Nitroaniline	505	---	169	ug/kg dry	"	"	ND	90	44-127%	---	---	
3-Nitroaniline	395	---	169	"	"	"	ND	70	33-120%	---	---	
4-Nitroaniline	391	---	169	"	"	"	ND	69	35-120%	---	---	
Nitrobenzene	490	---	84.6	"	"	"	ND	87	34-122%	---	---	
2,4-Dinitrotoluene	477	---	84.6	"	"	"	ND	85	48-126%	---	---	
2,6-Dinitrotoluene	480	---	84.6	"	"	"	ND	85	46-124%	---	---	
Benzoic acid	ND	---	1060	"	"	1130	ND	42	5-140%	---	---	Q-41
Benzyl alcohol	527	---	42.2	"	"	564	ND	94	29-122%	---	---	
Isophorone	527	---	21.1	"	"	"	ND	93	30-122%	---	---	Q-41
Azobenzene (1,2-DPH)	542	---	21.1	"	"	"	ND	96	39-125%	---	---	Q-41
Bis(2-Ethylhexyl) adipate	532	---	211	"	"	"	ND	94	60-121%	---	---	
3,3'-Dichlorobenzidine	1410	---	84.6	"	"	1130	ND	125	22-121%	---	---	Q-01
1,2-Dinitrobenzene	440	---	211	"	"	564	ND	78	44-120%	---	---	
1,3-Dinitrobenzene	460	---	211	"	"	"	ND	82	42-127%	---	---	
1,4-Dinitrobenzene	483	---	211	"	"	"	ND	86	37-132%	---	---	
Pyridine	311	---	42.2	"	"	"	ND	55	5-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 81 %		Limits: 37-122 %		Dilution: 3x						
2-Fluorobiphenyl (Surr)		70 %		44-115 %		"						
Phenol-d6 (Surr)		77 %		33-122 %		"						
p-Terphenyl-d14 (Surr)		77 %		54-127 %		"						
2-Fluorophenol (Surr)		87 %		35-115 %		"						
2,4,6-Tribromophenol (Surr)		82 %		39-132 %		"						
Q-41												

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060840 - EPA 3051A						Soil						
Blank (5060840-BLK1)						Prepared: 06/29/15 09:58 Analyzed: 07/02/15 01:23						
EPA 6020A												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1.00	"	"	---	---	---	---	---	---	
Cadmium	ND	---	0.200	"	"	---	---	---	---	---	---	
Chromium	ND	---	4.00	"	"	---	---	---	---	---	---	
Copper	ND	---	1.00	"	"	---	---	---	---	---	---	
Lead	ND	---	0.200	"	"	---	---	---	---	---	---	
Manganese	ND	---	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	
Selenium	ND	---	2.00	"	"	---	---	---	---	---	---	
Silver	ND	---	0.200	"	"	---	---	---	---	---	---	
Zinc	ND	---	4.00	"	"	---	---	---	---	---	---	
LCS (5060840-BS1)						Prepared: 06/29/15 09:58 Analyzed: 07/02/15 01:27						
EPA 6020A												
Arsenic	48.0	---	1.00	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Barium	50.5	---	1.00	"	"	"	---	101	"	---	---	
Cadmium	49.0	---	0.200	"	"	"	---	98	"	---	---	
Chromium	49.7	---	4.00	"	"	"	---	99	"	---	---	
Copper	52.3	---	1.00	"	"	"	---	105	"	---	---	
Lead	51.8	---	0.200	"	"	"	---	104	"	---	---	
Manganese	50.4	---	1.00	"	"	"	---	101	"	---	---	
Mercury	1.08	---	0.0800	"	"	1.00	---	108	"	---	---	
Selenium	24.5	---	2.00	"	"	25.0	---	98	"	---	---	
Silver	24.9	---	0.200	"	"	"	---	100	"	---	---	
Zinc	49.3	---	4.00	"	"	50.0	---	99	"	---	---	
Matrix Spike (5060840-MS2)						Prepared: 06/29/15 09:58 Analyzed: 07/02/15 03:36						
QC Source Sample: Livingston G-121 Berm Backfill (A5F0817-03)												
EPA 6020A												
Arsenic	52.9	---	1.04	mg/kg dry	10	51.9	1.65	99	75-125%	---	---	
Barium	91.9	---	1.04	"	"	"	59.4	63	"	---	---	Q-03

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Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060840 - EPA 3051A						Soil						
Matrix Spike (5060840-MS2)				Prepared: 06/29/15 09:58 Analyzed: 07/02/15 03:36								
QC Source Sample: Livingston G-121 Berm Backfill (A5F0817-03)												
Cadmium	51.1	---	0.207	mg/kg dry	"	"	0.188	98	"	---	---	
Chromium	54.7	---	4.15	"	"	"	2.45	101	"	---	---	
Copper	95.6	---	1.04	"	"	"	24.5	137	"	---	---	Q-04
Lead	53.9	---	0.207	"	"	"	2.50	99	"	---	---	
Manganese	210	---	1.04	"	"	"	210	0.6	"	---	---	Q-03
Mercury	1.07	---	0.0830	"	"	1.04	ND	103	"	---	---	
Selenium	26.4	---	2.07	"	"	25.9	ND	102	"	---	---	
Silver	26.4	---	0.207	"	"	"	ND	102	"	---	---	
Zinc	77.3	---	4.15	"	"	51.9	33.3	85	"	---	---	

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Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070183 - EPA 3051A						Soil						
Blank (5070183-BLK1)						Prepared: 07/08/15 11:45 Analyzed: 07/09/15 14:11						
EPA 6020A												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1.00	"	"	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	1.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	
Selenium	ND	---	2.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (5070183-BS1)						Prepared: 07/08/15 11:45 Analyzed: 07/09/15 14:14						
EPA 6020A												
Arsenic	52.8	---	1.00	mg/kg wet	10	50.0	---	106	80-120%	---	---	
Barium	52.9	---	1.00	"	"	"	---	106	"	---	---	
Cadmium	49.4	---	1.00	"	"	"	---	99	"	---	---	
Chromium	51.3	---	1.00	"	"	"	---	103	"	---	---	
Lead	49.3	---	1.00	"	"	"	---	99	"	---	---	
Mercury	1.04	---	0.0800	"	"	1.00	---	104	"	---	---	
Selenium	26.4	---	2.00	"	"	25.0	---	105	"	---	---	
Silver	24.8	---	1.00	"	"	"	---	99	"	---	---	

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Darrell Auvil For Darwin Thomas, Business Development Director

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5060845 - Total Solids (Dry Weight)						Soil						
Duplicate (5060845-DUP2)					Prepared: 06/29/15 11:38		Analyzed: 06/30/15 09:34					
QC Source Sample: Livingston G-121 Berm Backfill (A5F0817-03)												
EPA 8000C												
% Solids	95.5	---	1.00	% by Weight	1	---	94.5	---	---	1	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.



Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5060841							
A5F0817-01	Soil	EPA 8082A	06/26/15 06:45	06/29/15 10:42	10.13g/5mL	10g/5mL	0.99
A5F0817-02	Soil	EPA 8082A	06/26/15 06:15	06/29/15 10:42	10.04g/5mL	10g/5mL	1.00
A5F0817-03	Soil	EPA 8082A	06/26/15 06:48	06/29/15 10:42	10.06g/5mL	10g/5mL	0.99

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5060863							
A5F0817-01	Soil	EPA 8081B	06/26/15 06:45	06/30/15 06:55	10.88g/5mL	10g/5mL	0.92
A5F0817-02	Soil	EPA 8081B	06/26/15 06:15	06/30/15 06:55	11.62g/5mL	10g/5mL	0.86
A5F0817-03	Soil	EPA 8081B	06/26/15 06:48	06/30/15 06:55	11.35g/5mL	10g/5mL	0.88

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5060887							
A5F0817-01RE2	Soil	EPA 8270D	06/26/15 06:45	06/30/15 12:26	15.04g/2mL	15g/2mL	1.00
A5F0817-02	Soil	EPA 8270D	06/26/15 06:15	06/30/15 12:26	15.03g/2mL	15g/2mL	1.00
A5F0817-03	Soil	EPA 8270D	06/26/15 06:48	06/30/15 12:26	15.01g/2mL	15g/2mL	1.00

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5060840							
A5F0817-01	Soil	EPA 6020A	06/26/15 06:45	06/29/15 09:58	0.516g/50mL	0.5g/50mL	0.97
A5F0817-01RE1	Soil	EPA 6020A	06/26/15 06:45	06/29/15 09:58	0.516g/50mL	0.5g/50mL	0.97
A5F0817-02	Soil	EPA 6020A	06/26/15 06:15	06/29/15 09:58	0.502g/50mL	0.5g/50mL	1.00
A5F0817-02RE1	Soil	EPA 6020A	06/26/15 06:15	06/29/15 09:58	0.502g/50mL	0.5g/50mL	1.00
A5F0817-03	Soil	EPA 6020A	06/26/15 06:48	06/29/15 09:58	0.479g/50mL	0.5g/50mL	1.04
A5F0817-03RE1	Soil	EPA 6020A	06/26/15 06:48	06/29/15 09:58	0.479g/50mL	0.5g/50mL	1.04
Batch: 5070183							
A5F0817-02RE2	Soil	EPA 6020A	06/26/15 06:15	07/08/15 11:45	0.516g/50mL	0.5g/50mL	0.97

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 100
Project Manager: Terry RiceReported:
07/17/15 16:35

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5060845							
A5F0817-01	Soil	EPA 8000C	06/26/15 06:45	06/29/15 11:38	1N/A/1N/A	1N/A/1N/A	NA
A5F0817-02	Soil	EPA 8000C	06/26/15 06:15	06/29/15 11:38	1N/A/1N/A	1N/A/1N/A	NA
A5F0817-03	Soil	EPA 8000C	06/26/15 06:48	06/29/15 11:38	1N/A/1N/A	1N/A/1N/A	NA

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Darrell Auvil For Darwin Thomas, Business Development Director

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Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evrax**

Project Number: 100
Project Manager: Terry Rice

Reported:
07/17/15 16:35

Notes and Definitions

Qualifiers:

- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

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Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**

Project Number: 100

Project Manager: Terry Rice

Reported:

07/17/15 16:35

*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Darrell Auvil For Darwin Thomas, Business Development Director

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Reported:
07/17/15 16:35

[illegible]

Thursday, August 27, 2015

Terry Rice
Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

RE: Storedahl-Evraz / 1033Q

Enclosed are the results of analyses for work order A5G0329, which was received by the laboratory on 7/13/2015 at 2:50:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BB-S Comp	A5G0329-01	Soil	07/13/15 08:40	07/13/15 14:50
BB-C Comp	A5G0329-02	Soil	07/13/15 08:50	07/13/15 14:50
BB-N Comp	A5G0329-03	Soil	07/13/15 09:00	07/13/15 14:50
BB-Total Comp	A5G0329-04	Soil	07/13/15 09:11	07/13/15 14:50

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Darrell Auvil For Darwin Thomas, Business Development Director

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682

Project: **Storedahl-Evraz**
Project Number: 1033Q
Project Manager: Terry Rice

Reported:
08/27/15 11:38

ANALYTICAL CASE NARRATIVE

Work Order: A5G0329

Amended Report Revision 1:

Additional Analyses-

This report supersedes all previous reports.

The final report has been amended to include additional analyses for sample BB- Total Comp (Apex ID: A5G0329-04) including; 8082 PCBs, 8081 Pesticides, 8270 Semi-Volatiles, and 6020 metals.

Darrell Auvil
Project Manager
8/27/2015

Apex Laboratories



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Darrell Auvil For Darwin Thomas, Business Development Director

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
BB-Total Comp (A5G0329-04)			Matrix: Soil		Batch: 5070726			C-07	
Aroclor 1016	ND	---	9.19		ug/kg dry	1	07/27/15 17:53	EPA 8082A	
Aroclor 1221	ND	---	9.19		"	"	"	"	
Aroclor 1232	ND	---	9.19		"	"	"	"	
Aroclor 1242	ND	---	9.19		"	"	"	"	
Aroclor 1248	ND	---	9.19		"	"	"	"	
Aroclor 1254	ND	---	9.19		"	"	"	"	
Aroclor 1260	ND	---	9.19		"	"	"	"	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 90 %		Limits: 72-126 %		"	"	"	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit						
BB-Total Comp (A5G0329-04RE1)			Matrix: Soil		Batch: 5070768			C-05	
Aldrin	ND	---	1.80		ug/kg dry	1	07/30/15 16:25	EPA 8081B	
alpha-BHC	ND	---	1.80		"	"	"	"	
beta-BHC	ND	---	1.80		"	"	"	"	
delta-BHC	ND	---	1.80		"	"	"	"	
gamma-BHC (Lindane)	ND	---	1.80		"	"	"	"	
cis-Chlordane	ND	---	1.80		"	"	"	"	
trans-Chlordane	ND	---	1.80		"	"	"	"	
4,4'-DDD	ND	---	1.80		"	"	"	"	
4,4'-DDE	ND	---	1.80		"	"	"	"	
4,4'-DDT	ND	---	1.80		"	"	"	"	
Dieldrin	ND	---	1.80		"	"	"	"	
Endosulfan I	ND	---	1.80		"	"	"	"	
Endosulfan II	ND	---	1.80		"	"	"	"	
Endosulfan sulfate	ND	---	1.80		"	"	"	"	
Endrin	ND	---	1.80		"	"	"	"	
Endrin Aldehyde	ND	---	1.80		"	"	"	"	
Endrin ketone	ND	---	1.80		"	"	"	"	
Heptachlor	ND	---	1.80		"	"	"	"	
Heptachlor epoxide	ND	---	1.80		"	"	"	"	
Methoxychlor	ND	---	54.1		"	"	"	"	
Chlordane (Technical)	ND	---	54.1		"	"	"	"	
Toxaphene (Total)	ND	---	54.1		"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)		Recovery: 67 %		Limits: 42-129 %		"	"	"	
Decachlorobiphenyl (Surr)		104 %		Limits: 65-151 %		"	"	"	Q-41

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.

Project: Storedahl-Evraz

11917 NE 95th Street

Project Number: 1033Q

Vancouver, WA 98682

Project Manager: Terry Rice

Reported:

08/27/15 11:38

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit	Matrix					
BB-Total Comp (A5G0329-04RE2)				Soil	Batch: 5070714				
Acenaphthene	ND	---	2.65		ug/kg dry	1	07/27/15 15:57	EPA 8270D	
Acenaphthylene	ND	---	2.65		"	"	"	"	
Anthracene	ND	---	2.65		"	"	"	"	
Benz(a)anthracene	ND	---	2.65		"	"	"	"	
Benzo(a)pyrene	ND	---	3.97		"	"	"	"	
Benzo(b)fluoranthene	ND	---	3.97		"	"	"	"	
Benzo(k)fluoranthene	ND	---	3.97		"	"	"	"	
Benzo(g,h,i)perylene	ND	---	2.65		"	"	"	"	
Chrysene	ND	---	2.65		"	"	"	"	
Dibenz(a,h)anthracene	ND	---	2.65		"	"	"	"	
Fluoranthene	ND	---	2.65		"	"	"	"	
Fluorene	ND	---	2.65		"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	2.65		"	"	"	"	
1-Methylnaphthalene	ND	---	5.29		"	"	"	"	
2-Methylnaphthalene	ND	---	5.29		"	"	"	"	
Naphthalene	ND	---	5.29		"	"	"	"	
Phenanthrene	ND	---	2.65		"	"	"	"	
Pyrene	ND	---	2.65		"	"	"	"	
Carbazole	ND	---	3.97		"	"	"	"	
Dibenzofuran	ND	---	2.65		"	"	"	"	
4-Chloro-3-methylphenol	ND	---	26.5		"	"	"	"	
2-Chlorophenol	ND	---	13.2		"	"	"	"	
2,4-Dichlorophenol	ND	---	13.2		"	"	"	"	
2,4-Dimethylphenol	ND	---	13.2		"	"	"	"	
2,4-Dinitrophenol	ND	---	66.2		"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	---	66.2		"	"	"	"	
2-Methylphenol	ND	---	6.62		"	"	"	"	
3+4-Methylphenol(s)	ND	---	6.62		"	"	"	"	
2-Nitrophenol	ND	---	26.5		"	"	"	"	
4-Nitrophenol	ND	---	26.5		"	"	"	"	
Pentachlorophenol (PCP)	ND	---	26.5		"	"	"	"	
Phenol	ND	---	5.29		"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	---	13.2		"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	---	13.2		"	"	"	"	
2,4,5-Trichlorophenol	ND	---	13.2		"	"	"	"	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Units	Dilution	Date Analyzed	Method	Notes
			Limit	Matrix:					
BB-Total Comp (A5G0329-04RE2)				Soil	Batch: 5070714				
2,4,6-Trichlorophenol	ND	---	13.2		ug/kg dry	1	"	EPA 8270D	
Bis(2-ethylhexyl)phthalate	ND	---	39.7		"	"	"	"	
Butyl benzyl phthalate	ND	---	26.5		"	"	"	"	
Diethylphthalate	ND	---	26.5		"	"	"	"	
Dimethylphthalate	ND	---	26.5		"	"	"	"	
Di-n-butylphthalate	ND	---	26.5		"	"	"	"	
Di-n-octyl phthalate	ND	---	26.5		"	"	"	"	
N-Nitrosodimethylamine	ND	---	6.62		"	"	"	"	
N-Nitroso-di-n-propylamine	ND	---	6.62		"	"	"	"	
N-Nitrosodiphenylamine	ND	---	6.62		"	"	"	"	
Bis(2-Chloroethoxy) methane	ND	---	6.62		"	"	"	"	
Bis(2-Chloroethyl) ether	ND	---	6.62		"	"	"	"	
Bis(2-Chloroisopropyl) ether	ND	---	6.62		"	"	"	"	
Hexachlorobenzene	ND	---	2.65		"	"	"	"	
Hexachlorobutadiene	ND	---	6.62		"	"	"	"	
Hexachlorocyclopentadiene	ND	---	13.2		"	"	"	"	
Hexachloroethane	ND	---	6.62		"	"	"	"	
2-Chloronaphthalene	ND	---	2.65		"	"	"	"	
1,2-Dichlorobenzene	ND	---	6.62		"	"	"	"	
1,3-Dichlorobenzene	ND	---	6.62		"	"	"	"	
1,4-Dichlorobenzene	ND	---	6.62		"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	6.62		"	"	"	"	
4-Bromophenyl phenyl ether	ND	---	6.62		"	"	"	"	
4-Chlorophenyl phenyl ether	ND	---	6.62		"	"	"	"	
Aniline	ND	---	13.2		"	"	"	"	
4-Chloroaniline	ND	---	6.62		"	"	"	"	
2-Nitroaniline	ND	---	52.9		"	"	"	"	
3-Nitroaniline	ND	---	52.9		"	"	"	"	
4-Nitroaniline	ND	---	52.9		"	"	"	"	
Nitrobenzene	ND	---	26.5		"	"	"	"	
2,4-Dinitrotoluene	ND	---	26.5		"	"	"	"	
2,6-Dinitrotoluene	ND	---	26.5		"	"	"	"	
Benzoic acid	ND	---	330		"	"	"	"	
Benzyl alcohol	ND	---	13.2		"	"	"	"	
Isophorone	ND	---	6.62		"	"	"	"	

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Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
BB-Total Comp (A5G0329-04RE2)			Matrix: Soil		Batch: 5070714			
Azobenzene (1,2-DPH)	ND	---	6.62	ug/kg dry	1	"	EPA 8270D	
Bis(2-Ethylhexyl) adipate	ND	---	66.2	"	"	"	"	
3,3'-Dichlorobenzidine	ND	---	26.5	"	"	"	"	
1,2-Dinitrobenzene	ND	---	66.2	"	"	"	"	
1,3-Dinitrobenzene	ND	---	66.2	"	"	"	"	
1,4-Dinitrobenzene	ND	---	66.2	"	"	"	"	
Pyridine	ND	---	13.2	"	"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 77 %		Limits: 37-122 %	"	"	"	
2-Fluorobiphenyl (Surr)		65 %		Limits: 44-115 %	"	"	"	
Phenol-d6 (Surr)		60 %		Limits: 33-122 %	"	"	"	
p-Terphenyl-d14 (Surr)		97 %		Limits: 54-127 %	"	"	"	
2-Fluorophenol (Surr)		63 %		Limits: 35-115 %	"	"	"	
2,4,6-Tribromophenol (Surr)		88 %		Limits: 39-132 %	"	"	"	Q-41



Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
BB-S Comp (A5G0329-01)			Matrix: Soil					
Batch: 5070314								
Arsenic	4.29	---	1.02	mg/kg dry	10	07/13/15 19:11	EPA 6020A	
BB-C Comp (A5G0329-02)			Matrix: Soil					
Batch: 5070314								
Arsenic	4.43	---	1.04	mg/kg dry	10	07/13/15 19:29	EPA 6020A	
BB-N Comp (A5G0329-03)			Matrix: Soil					
Batch: 5070314								
Arsenic	4.46	---	1.10	mg/kg dry	10	07/13/15 19:34	EPA 6020A	
BB-Total Comp (A5G0329-04)			Matrix: Soil					
Batch: 5070314								
Arsenic	3.91	---	1.10	mg/kg dry	10	07/13/15 19:38	EPA 6020A	
Cadmium	ND	---	0.220	"	"	"	"	
Copper	25.2	---	2.20	"	"	"	"	
Manganese	323	---	1.10	"	"	"	"	
Mercury	ND	---	0.0881	"	"	"	"	
Zinc	28.9	---	4.40	"	"	"	"	
Batch: 5070723								
Chromium	8.59	---	1.10	"	"	07/28/15 22:56	"	
Lead	3.36	---	0.220	"	"	"	"	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
BB-S Comp (A5G0329-01)			Matrix: Soil		Batch: 5070299			
% Solids	94.7	---	1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	
BB-C Comp (A5G0329-02)			Matrix: Soil		Batch: 5070299			
% Solids	95.8	---	1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	
BB-N Comp (A5G0329-03)			Matrix: Soil		Batch: 5070299			
% Solids	96.0	---	1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	
BB-Total Comp (A5G0329-04)			Matrix: Soil		Batch: 5070299			
% Solids	95.6	---	1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	

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Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070726 - EPA 3546						Soil						
Blank (5070726-BLK1)			Prepared: 07/27/15 12:08					Analyzed: 07/27/15 17:53			C-07	
EPA 8082A												
Aroclor 1016	ND	---	8.33	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	---	8.33	"	"	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 97 %		Limits: 72-126 %		Dilution: 1x						
LCS (5070726-BS1)			Prepared: 07/27/15 12:08					Analyzed: 07/27/15 18:11			C-07	
EPA 8082A												
Aroclor 1016	204	---	10.0	ug/kg wet	1	250	---	82	47-134%	---	---	
Aroclor 1260	269	---	10.0	"	"	"	---	108	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 98 %		Limits: 72-126 %		Dilution: 1x						
Duplicate (5070726-DUP1)			Prepared: 07/27/15 12:08					Analyzed: 07/27/15 18:29			C-07	
QC Source Sample: BB-Total Comp (A5G0329-04)												
EPA 8082A												
Aroclor 1016	ND	---	9.16	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	9.16	"	"	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	9.16	"	"	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	9.16	"	"	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	9.16	"	"	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	9.16	"	"	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	9.16	"	"	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 88 %		Limits: 72-126 %		Dilution: 1x						

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070768 - EPA 3546/3640A (GPC)						Soil						
Blank (5070768-BLK1)						Prepared: 07/27/15 09:39		Analyzed: 07/30/15 15:48			C-05	
EPA 8081B												
Aldrin	ND	---	1.67	ug/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	---	1.67	"	"	---	---	---	---	---	---	
beta-BHC	ND	---	1.67	"	"	---	---	---	---	---	---	
delta-BHC	ND	---	1.67	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	---	1.67	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	---	1.67	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	---	1.67	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	---	1.67	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	---	1.67	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	---	1.67	"	"	---	---	---	---	---	---	
Dieldrin	ND	---	1.67	"	"	---	---	---	---	---	---	
Endosulfan I	ND	---	1.67	"	"	---	---	---	---	---	---	
Endosulfan II	ND	---	1.67	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	---	1.67	"	"	---	---	---	---	---	---	
Endrin	ND	---	1.67	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	---	1.67	"	"	---	---	---	---	---	---	
Endrin ketone	ND	---	1.67	"	"	---	---	---	---	---	---	
Heptachlor	ND	---	1.67	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	---	1.67	"	"	---	---	---	---	---	---	
Methoxychlor	ND	---	5.00	"	"	---	---	---	---	---	---	
Chlordane (Technical)	ND	---	50.0	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 66 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		109 %		65-151 %		"						
Q-41												

LCS (5070768-BS1)

Prepared: 07/27/15 09:39 Analyzed: 07/30/15 16:07

C-05

EPA 8081B												
Aldrin	44.7	---	2.00	ug/kg wet	1	50.0	---	89	45-136%	---	---	
alpha-BHC	44.5	---	2.00	"	"	"	---	89	45-137%	---	---	
beta-BHC	44.2	---	2.00	"	"	"	---	88	50-136%	---	---	
delta-BHC	46.4	---	2.00	"	"	"	---	93	47-139%	---	---	

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Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070768 - EPA 3546/3640A (GPC)						Soil						
LCS (5070768-BS1)				Prepared: 07/27/15 09:39				Analyzed: 07/30/15 16:07				C-05
gamma-BHC (Lindane)	45.7	---	2.00	"	"	"	---	91	49-135%	---	---	
cis-Chlordane	47.6	---	2.00	"	"	"	---	95	54-133%	---	---	
trans-Chlordane	49.6	---	2.00	"	"	"	---	99	53-135%	---	---	
4,4'-DDD	56.0	---	2.00	"	"	"	---	112	56-139%	---	---	Q-41
4,4'-DDE	51.0	---	2.00	"	"	"	---	102	56-134%	---	---	
4,4'-DDT	65.6	---	2.00	"	"	"	---	131	50-141%	---	---	Q-41
Dieldrin	51.6	---	2.00	"	"	"	---	103	56-136%	---	---	
Endosulfan I	50.2	---	2.00	"	"	"	---	100	52-132%	---	---	
Endosulfan II	55.8	---	2.00	"	"	"	---	112	53-134%	---	---	Q-41
Endosulfan sulfate	57.3	---	2.00	"	"	"	---	115	55-136%	---	---	Q-41
Endrin	55.9	---	2.00	"	"	"	---	112	56-140%	---	---	Q-41
Endrin Aldehyde	51.5	---	2.00	"	"	"	---	103	35-137%	---	---	Q-41
Endrin ketone	56.2	---	2.00	"	"	"	---	112	55-136%	---	---	Q-41
Heptachlor	46.0	---	2.00	"	"	"	---	92	47-136%	---	---	
Heptachlor epoxide	48.5	---	2.00	"	"	"	---	97	52-136%	---	---	
Methoxychlor	72.5	---	6.00	"	"	"	---	145	52-143%	---	---	Q-41

Surr: 2,4,5,6-TCMX (Surr)

Recovery: 73 %

Limits: 42-129 %

Dilution: 1x

Decachlorobiphenyl (Surr)

119 %

65-151 %

"

Q-41

Duplicate (5070768-DUP1)

Prepared: 07/27/15 09:39 Analyzed: 07/30/15 16:43

C-05**QC Source Sample: BB-Total Comp (A5G0329-04RE1)****EPA 8081B**

Aldrin	ND	---	1.75	ug/kg dry	1	---	ND	---	---	---	30%
alpha-BHC	ND	---	1.75	"	"	---	ND	---	---	---	30%
beta-BHC	ND	---	1.75	"	"	---	ND	---	---	---	30%
delta-BHC	ND	---	1.75	"	"	---	ND	---	---	---	30%
gamma-BHC (Lindane)	ND	---	1.75	"	"	---	ND	---	---	---	30%
cis-Chlordane	ND	---	1.75	"	"	---	ND	---	---	---	30%
trans-Chlordane	ND	---	1.75	"	"	---	ND	---	---	---	30%
4,4'-DDD	ND	---	1.75	"	"	---	ND	---	---	---	30%
4,4'-DDE	ND	---	1.75	"	"	---	ND	---	---	---	30%
4,4'-DDT	ND	---	1.75	"	"	---	ND	---	---	---	30%

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Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070768 - EPA 3546/3640A (GPC)							Soil					
Duplicate (5070768-DUP1)				Prepared: 07/27/15 09:39			Analyzed: 07/30/15 16:43			C-05		
QC Source Sample: BB-Total Comp (A5G0329-04RE1)												
Dieldrin	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Endosulfan I	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Endosulfan II	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Endrin	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Endrin Aldehyde	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Endrin ketone	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Heptachlor	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Heptachlor epoxide	ND	---	1.75	"	"	---	ND	---	---	---	30%	
Methoxychlor	ND	---	5.26	"	"	---	ND	---	---	---	30%	
Chlordane (Technical)	ND	---	52.6	"	"	---	ND	---	---	---	30%	
Toxaphene (Total)	ND	---	52.6	"	"	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 76 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		119 %		65-151 %		"						
												Q-41

Matrix Spike (5070768-MS1)					Prepared: 07/27/15 09:39 Analyzed: 07/30/15 17:02				C-05		
QC Source Sample: BB-Total Comp (A5G0329-04RE1)											
EPA 8081B											
Aldrin	40.4	---	1.77	ug/kg dry	1	44.4	ND	91	45-136%	---	---
alpha-BHC	40.5	---	1.77	"	"	"	ND	91	45-137%	---	---
beta-BHC	40.6	---	1.77	"	"	"	ND	92	50-136%	---	---
delta-BHC	41.8	---	1.77	"	"	"	ND	94	47-139%	---	---
gamma-BHC (Lindane)	40.9	---	1.77	"	"	"	ND	92	49-135%	---	---
cis-Chlordane	43.3	---	1.77	"	"	"	ND	98	54-133%	---	---
trans-Chlordane	43.8	---	1.77	"	"	"	ND	99	53-135%	---	---
4,4'-DDD	47.0	---	1.77	"	"	"	ND	106	56-139%	---	---
4,4'-DDE	44.2	---	1.77	"	"	"	ND	100	56-134%	---	---
4,4'-DDT	51.3	---	1.77	"	"	"	ND	116	50-141%	---	---
Dieldrin	44.3	---	1.77	"	"	"	ND	100	56-136%	---	---
Endosulfan I	42.4	---	1.77	"	"	"	ND	96	52-132%	---	---

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Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070768 - EPA 3546/3640A (GPC)							Soil					
Matrix Spike (5070768-MS1)				Prepared: 07/27/15 09:39		Analyzed: 07/30/15 17:02					C-05	
QC Source Sample: BB-Total Comp (A5G0329-04RE1)												
Endosulfan II	47.9	---	1.77	ug/kg dry	"	"	ND	108	53-134%	---	---	Q-41
Endosulfan sulfate	47.7	---	1.77	"	"	"	ND	108	55-136%	---	---	Q-41
Endrin	48.1	---	1.77	"	"	"	ND	108	56-140%	---	---	Q-41
Endrin Aldehyde	44.2	---	1.77	"	"	"	ND	100	35-137%	---	---	Q-41
Endrin ketone	48.6	---	1.77	"	"	"	ND	109	55-136%	---	---	Q-41
Heptachlor	41.2	---	1.77	"	"	"	ND	93	47-136%	---	---	
Heptachlor epoxide	41.0	---	1.77	"	"	"	ND	93	52-136%	---	---	
Methoxychlor	60.7	---	5.32	"	"	"	ND	137	52-143%	---	---	Q-41
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 75 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		111 %		65-151 %		"						
Q-41												

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Project Number: 1033Q
Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
Blank (5070714-BLK1)						Prepared: 07/27/15 09:41 Analyzed: 07/27/15 13:16						
EPA 8270D												
Acenaphthene	ND	---	2.50	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	2.50	"	"	---	---	---	---	---	---	
Anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	3.75	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	3.75	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	3.75	"	"	---	---	---	---	---	---	
Benzo(b+k)fluoranthene(s)	ND	---	7.50	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	2.50	"	"	---	---	---	---	---	---	
Chrysene	ND	---	2.50	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Fluoranthene	ND	---	2.50	"	"	---	---	---	---	---	---	
Fluorene	ND	---	2.50	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	2.50	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	5.00	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	5.00	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	5.00	"	"	---	---	---	---	---	---	
Phenanthrene	ND	---	2.50	"	"	---	---	---	---	---	---	
Pyrene	ND	---	2.50	"	"	---	---	---	---	---	---	
Carbazole	ND	---	3.75	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	---	2.50	"	"	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	25.0	"	"	---	---	---	---	---	---	
2-Chlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	62.5	"	"	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	62.5	"	"	---	---	---	---	---	---	
2-Methylphenol	ND	---	6.25	"	"	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	6.25	"	"	---	---	---	---	---	---	
2-Nitrophenol	ND	---	25.0	"	"	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
Blank (5070714-BLK1)						Prepared: 07/27/15 09:41 Analyzed: 07/27/15 13:16						
4-Nitrophenol	ND	---	25.0	ug/kg wet	"	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	25.0	"	"	---	---	---	---	---	---	
Phenol	ND	---	5.00	"	"	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,3,5,6-Tetrachlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	12.5	"	"	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	37.5	"	"	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Diethylphthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Dimethylphthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	25.0	"	"	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	6.25	"	"	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	6.25	"	"	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Chloroisopropyl) ether	ND	---	6.25	"	"	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	2.50	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	6.25	"	"	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	12.5	"	"	---	---	---	---	---	---	
Hexachloroethane	ND	---	6.25	"	"	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	2.50	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	6.25	"	"	---	---	---	---	---	---	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
Blank (5070714-BLK1)						Prepared: 07/27/15 09:41		Analyzed: 07/27/15 13:16				
4-Bromophenyl phenyl ether	ND	---	6.25	ug/kg wet	"	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	6.25	"	"	---	---	---	---	---	---	
Aniline	ND	---	12.5	"	"	---	---	---	---	---	---	
4-Chloroaniline	ND	---	6.25	"	"	---	---	---	---	---	---	
2-Nitroaniline	ND	---	50.0	"	"	---	---	---	---	---	---	
3-Nitroaniline	ND	---	50.0	"	"	---	---	---	---	---	---	
4-Nitroaniline	ND	---	50.0	"	"	---	---	---	---	---	---	
Nitrobenzene	ND	---	25.0	"	"	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	25.0	"	"	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	25.0	"	"	---	---	---	---	---	---	
Benzoic acid	ND	---	312	"	"	---	---	---	---	---	---	
Benzyl alcohol	ND	---	12.5	"	"	---	---	---	---	---	---	
Isophorone	ND	---	6.25	"	"	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	---	6.25	"	"	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	62.5	"	"	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	25.0	"	"	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	---	62.5	"	"	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	62.5	"	"	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	62.5	"	"	---	---	---	---	---	---	
Pyridine	ND	---	12.5	"	"	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 94 %		Limits: 37-122 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		78 %		44-115 %		"						
Phenol-d6 (Surr)		72 %		33-122 %		"						
p-Terphenyl-d14 (Surr)		93 %		54-127 %		"						
2-Fluorophenol (Surr)		75 %		35-115 %		"						
2,4,6-Tribromophenol (Surr)		94 %		39-132 %		"						
												Q-41
LCS (5070714-BS1)						Prepared: 07/27/15 09:41		Analyzed: 07/27/15 13:56				
EPA 8270D												
Acenaphthene	466	---	2.67	ug/kg wet	1	533	---	87	40-122%	---	---	
Acenaphthylene	448	---	2.67	"	"	"	---	84	32-132%	---	---	

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Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
LCS (5070714-BS1)						Prepared: 07/27/15 09:41 Analyzed: 07/27/15 13:56						
Anthracene	453	---	2.67	ug/kg wet	"	"	---	85	47-123%	---	---	
Benz(a)anthracene	500	---	2.67	"	"	"	---	94	49-126%	---	---	
Benzo(a)pyrene	524	---	4.00	"	"	"	---	98	45-129%	---	---	
Benzo(b)fluoranthene	524	---	4.00	"	"	"	---	98	45-132%	---	---	
Benzo(k)fluoranthene	492	---	4.00	"	"	"	---	92	47-132%	---	---	
Benzo(b+k)fluoranthene(s)	1040	---	8.00	"	"	1070	---	97	45-132%	---	---	
Benzo(g,h,i)perylene	507	---	2.67	"	"	533	---	95	43-134%	---	---	
Chrysene	486	---	2.67	"	"	"	---	91	50-124%	---	---	
Dibenz(a,h)anthracene	502	---	2.67	"	"	"	---	94	45-134%	---	---	
Fluoranthene	469	---	2.67	"	"	"	---	88	50-127%	---	---	
Fluorene	449	---	2.67	"	"	"	---	84	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	492	---	2.67	"	"	"	---	92	45-133%	---	---	
1-Methylnaphthalene	444	---	5.33	"	"	"	---	83	40-120%	---	---	
2-Methylnaphthalene	452	---	5.33	"	"	"	---	85	38-122%	---	---	
Naphthalene	428	---	5.33	"	"	"	---	80	35-123%	---	---	
Phenanthrene	427	---	2.67	"	"	"	---	80	50-121%	---	---	
Pyrene	443	---	2.67	"	"	"	---	83	47-127%	---	---	
Carbazole	468	---	4.00	"	"	"	---	88	50-122%	---	---	
Dibenzofuran	433	---	2.67	"	"	"	---	81	44-120%	---	---	
4-Chloro-3-methylphenol	540	---	26.7	"	"	"	---	101	45-122%	---	---	
2-Chlorophenol	507	---	13.3	"	"	"	---	95	34-121%	---	---	
2,4-Dichlorophenol	509	---	13.3	"	"	"	---	95	40-122%	---	---	
2,4-Dimethylphenol	532	---	13.3	"	"	"	---	100	30-127%	---	---	
2,4-Dinitrophenol	516	---	66.7	"	"	"	---	97	5-137%	---	---	
4,6-Dinitro-2-methylphenol	529	---	66.7	"	"	"	---	99	29-132%	---	---	
2-Methylphenol	531	---	6.67	"	"	"	---	100	32-122%	---	---	
3+4-Methylphenol(s)	529	---	6.67	"	"	"	---	99	34-120%	---	---	
2-Nitrophenol	501	---	26.7	"	"	"	---	94	36-123%	---	---	
4-Nitrophenol	494	---	26.7	"	"	"	---	93	30-132%	---	---	
Pentachlorophenol (PCP)	559	---	26.7	"	"	"	---	105	25-133%	---	---	
Phenol	522	---	5.33	"	"	"	---	98	34-120%	---	---	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
LCS (5070714-BS1)						Prepared: 07/27/15 09:41 Analyzed: 07/27/15 13:56						
2,3,4,6-Tetrachlorophenol	524	---	13.3	ug/kg wet	"	"	---	98	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	520	---	13.3	"	"	"	---	97	40-120%	---	---	
2,4,5-Trichlorophenol	521	---	13.3	"	"	"	---	98	41-124%	---	---	
2,4,6-Trichlorophenol	518	---	13.3	"	"	"	---	97	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	550	---	40.0	"	"	"	---	103	51-133%	---	---	
Butyl benzyl phthalate	555	---	26.7	"	"	"	---	104	48-132%	---	---	
Diethylphthalate	479	---	26.7	"	"	"	---	90	50-124%	---	---	
Dimethylphthalate	507	---	26.7	"	"	"	---	95	48-124%	---	---	
Di-n-butylphthalate	495	---	26.7	"	"	"	---	93	51-128%	---	---	
Di-n-octyl phthalate	533	---	26.7	"	"	"	---	100	44-140%	---	---	Q-31
N-Nitrosodimethylamine	387	---	6.67	"	"	"	---	73	23-120%	---	---	
N-Nitroso-di-n-propylamine	581	---	6.67	"	"	"	---	109	36-120%	---	---	
N-Nitrosodiphenylamine	485	---	6.67	"	"	"	---	91	38-127%	---	---	
Bis(2-Chloroethoxy) methane	480	---	6.67	"	"	"	---	90	36-121%	---	---	
Bis(2-Chloroethyl) ether	479	---	6.67	"	"	"	---	90	31-120%	---	---	
Bis(2-Chloroisopropyl) ether	539	---	6.67	"	"	"	---	101	33-131%	---	---	Q-41
Hexachlorobenzene	521	---	2.67	"	"	"	---	98	44-122%	---	---	
Hexachlorobutadiene	532	---	6.67	"	"	"	---	100	32-123%	---	---	
Hexachlorocyclopentadiene	642	---	13.3	"	"	"	---	120	5-140%	---	---	Q-41
Hexachloroethane	521	---	6.67	"	"	"	---	98	28-120%	---	---	
2-Chloronaphthalene	445	---	2.67	"	"	"	---	83	41-120%	---	---	
1,2-Dichlorobenzene	447	---	6.67	"	"	"	---	84	33-120%	---	---	
1,3-Dichlorobenzene	450	---	6.67	"	"	"	---	84	30-120%	---	---	
1,4-Dichlorobenzene	456	---	6.67	"	"	"	---	85	31-120%	---	---	
1,2,4-Trichlorobenzene	446	---	6.67	"	"	"	---	84	34-120%	---	---	
4-Bromophenyl phenyl ether	543	---	6.67	"	"	"	---	102	46-124%	---	---	
4-Chlorophenyl phenyl ether	486	---	6.67	"	"	"	---	91	45-121%	---	---	
Aniline	416	---	13.3	"	"	"	---	78	7-120%	---	---	

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
LCS (5070714-BS1)						Prepared: 07/27/15 09:41 Analyzed: 07/27/15 13:56						
4-Chloroaniline	226	---	6.67	ug/kg wet	"	"	---	42	16-120%	---	---	
2-Nitroaniline	505	---	53.3	"	"	"	---	95	44-127%	---	---	
3-Nitroaniline	395	---	53.3	"	"	"	---	74	33-120%	---	---	
4-Nitroaniline	498	---	53.3	"	"	"	---	93	35-120%	---	---	
Nitrobenzene	557	---	26.7	"	"	"	---	105	34-122%	---	---	
2,4-Dinitrotoluene	514	---	26.7	"	"	"	---	96	48-126%	---	---	
2,6-Dinitrotoluene	540	---	26.7	"	"	"	---	101	46-124%	---	---	
Benzoic acid	572	---	333	"	"	1070	---	54	5-140%	---	---	
Benzyl alcohol	536	---	13.3	"	"	533	---	100	29-122%	---	---	
Isophorone	550	---	6.67	"	"	"	---	103	30-122%	---	---	
Azobenzene (1,2-DPH)	551	---	6.67	"	"	"	---	103	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	535	---	66.7	"	"	"	---	100	60-121%	---	---	
3,3'-Dichlorobenzidine	876	---	26.7	"	"	1070	---	82	22-121%	---	---	
1,2-Dinitrobenzene	525	---	66.7	"	"	533	---	98	44-120%	---	---	
1,3-Dinitrobenzene	532	---	66.7	"	"	"	---	100	42-127%	---	---	
1,4-Dinitrobenzene	553	---	66.7	"	"	"	---	104	37-132%	---	---	
Pyridine	338	---	13.3	"	"	"	---	63	5-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr) Recovery: 100 % Limits: 37-122 % Dilution: 1x</i>												
<i>2-Fluorobiphenyl (Surr) 77 % 44-115 % "</i>												
<i>Phenol-d6 (Surr) 89 % 33-122 % "</i>												
<i>p-Terphenyl-d14 (Surr) 111 % 54-127 % "</i>												
<i>2-Fluorophenol (Surr) 91 % 35-115 % "</i>												
<i>2,4,6-Tribromophenol (Surr) 112 % 39-132 % "</i>												

Q-41

Duplicate (5070714-DUP1)

Prepared: 07/27/15 09:41 Analyzed: 07/27/15 16:32

QC Source Sample: BB-Total Comp (A5G0329-04RE2)

EPA 8270D

Acenaphthene	ND	---	2.67	ug/kg dry	1	---	ND	---	---	---	30%
Acenaphthylene	ND	---	2.67	"	"	---	ND	---	---	---	30%
Anthracene	ND	---	2.67	"	"	---	ND	---	---	---	30%
Benz(a)anthracene	ND	---	2.67	"	"	---	ND	---	---	---	30%
Benzo(a)pyrene	ND	---	4.00	"	"	---	ND	---	---	---	30%

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Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546							Soil					
Duplicate (5070714-DUP1)				Prepared: 07/27/15 09:41			Analyzed: 07/27/15 16:32					
QC Source Sample: BB-Total Comp (A5G0329-04RE2)												
Benzo(b)fluoranthene	ND	---	4.00	ug/kg dry	"	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	4.00	"	"	---	ND	---	---	---	30%	
Benzo(b+k)fluoranthene(s)	ND	---	8.01	"	"	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Chrysene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Fluoranthene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Fluorene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	---	5.33	"	"	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	---	5.33	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	5.33	"	"	---	ND	---	---	---	30%	
Phenanthrene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Pyrene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Carbazole	ND	---	4.00	"	"	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	2.67	"	"	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	---	26.7	"	"	---	ND	---	---	---	30%	
2-Chlorophenol	ND	---	13.3	"	"	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	---	13.3	"	"	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	---	13.3	"	"	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	---	66.7	"	"	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	---	66.7	"	"	---	ND	---	---	---	30%	
2-Methylphenol	ND	---	6.67	"	"	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	---	6.67	"	"	---	ND	---	---	---	30%	
2-Nitrophenol	ND	---	26.7	"	"	---	ND	---	---	---	30%	
4-Nitrophenol	ND	---	26.7	"	"	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	---	26.7	"	"	---	ND	---	---	---	30%	
Phenol	ND	---	5.33	"	"	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	---	13.3	"	"	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	---	13.3	"	"	---	ND	---	---	---	30%	

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Darrell Auil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
Duplicate (5070714-DUP1)						Prepared: 07/27/15 09:41		Analyzed: 07/27/15 16:32				
QC Source Sample: BB-Total Comp (A5G0329-04RE2)												
2,4,5-Trichlorophenol	ND	---	13.3	ug/kg dry	"	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	---	13.3	"	"	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	---	40.0	"	"	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	---	26.7	"	"	---	ND	---	---	---	30%	
Diethylphthalate	ND	---	26.7	"	"	---	ND	---	---	---	30%	
Dimethylphthalate	ND	---	26.7	"	"	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	---	26.7	"	"	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	---	26.7	"	"	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	---	6.67	"	"	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	---	6.67	"	"	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Bis(2-Chloroisopropyl) ether	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	---	13.3	"	"	---	ND	---	---	---	30%	
Hexachloroethane	ND	---	6.67	"	"	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	---	2.67	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	6.67	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	6.67	"	"	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	6.67	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	6.67	"	"	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	---	6.67	"	"	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Aniline	ND	---	13.3	"	"	---	ND	---	---	---	30%	
4-Chloroaniline	ND	---	6.67	"	"	---	ND	---	---	---	30%	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
Duplicate (5070714-DUP1)				Prepared: 07/27/15 09:41 Analyzed: 07/27/15 16:32								
QC Source Sample: BB-Total Comp (A5G0329-04RE2)												
2-Nitroaniline	ND	---	53.3	ug/kg dry	"	---	ND	---	---	---	30%	
3-Nitroaniline	ND	---	53.3	"	"	---	ND	---	---	---	30%	
4-Nitroaniline	ND	---	53.3	"	"	---	ND	---	---	---	30%	
Nitrobenzene	ND	---	26.7	"	"	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	---	26.7	"	"	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	---	26.7	"	"	---	ND	---	---	---	30%	
Benzoic acid	ND	---	333	"	"	---	ND	---	---	---	30%	
Benzyl alcohol	ND	---	13.3	"	"	---	ND	---	---	---	30%	
Isophorone	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	---	6.67	"	"	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	---	66.7	"	"	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	---	26.7	"	"	---	ND	---	---	---	30%	
1,2-Dinitrobenzene	ND	---	66.7	"	"	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	---	66.7	"	"	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	---	66.7	"	"	---	ND	---	---	---	30%	
Pyridine	ND	---	13.3	"	"	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 81 %		Limits: 37-122 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		65 %		44-115 %		"						
Phenol-d6 (Surr)		63 %		33-122 %		"						
p-Terphenyl-d14 (Surr)		96 %		54-127 %		"						
2-Fluorophenol (Surr)		64 %		35-115 %		"						
2,4,6-Tribromophenol (Surr)		94 %		39-132 %		"						

Q-41

Q-41

Matrix Spike (5070714-MS1)

Prepared: 07/27/15 09:41 Analyzed: 07/27/15 17:12

QC Source Sample: BB-Total Comp (A5G0329-04RE2)

EPA 8270D

Acenaphthene	398	---	2.71	ug/kg dry	1	541	ND	74	40-122%	---	---
Acenaphthylene	391	---	2.71	"	"	"	ND	72	32-132%	---	---
Anthracene	436	---	2.71	"	"	"	ND	81	47-123%	---	---
Benz(a)anthracene	487	---	2.71	"	"	"	ND	90	49-126%	---	---
Benzo(a)pyrene	504	---	4.05	"	"	"	ND	93	45-129%	---	---

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Project Manager: Terry RiceReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
Matrix Spike (5070714-MS1)				Prepared: 07/27/15 09:41				Analyzed: 07/27/15 17:12				
QC Source Sample: BB-Total Comp (A5G0329-04RE2)												
Benzo(b)fluoranthene	492	---	4.05	ug/kg dry	"	"	ND	91	45-132%	---	---	
Benzo(k)fluoranthene	478	---	4.05	"	"	"	ND	88	47-132%	---	---	
Benzo(b+k)fluoranthene(s)	992	---	8.11	"	"	1080	ND	92	45-132%	---	---	
Benzo(g,h,i)perylene	497	---	2.71	"	"	541	ND	92	43-134%	---	---	
Chrysene	475	---	2.71	"	"	"	ND	88	50-124%	---	---	
Dibenz(a,h)anthracene	482	---	2.71	"	"	"	ND	89	45-134%	---	---	
Fluoranthene	457	---	2.71	"	"	"	ND	85	50-127%	---	---	
Fluorene	404	---	2.71	"	"	"	ND	75	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	471	---	2.71	"	"	"	ND	87	45-133%	---	---	
1-Methylnaphthalene	383	---	5.40	"	"	"	ND	71	40-120%	---	---	
2-Methylnaphthalene	402	---	5.40	"	"	"	ND	74	38-122%	---	---	
Naphthalene	370	---	5.40	"	"	"	ND	68	35-123%	---	---	
Phenanthrene	412	---	2.71	"	"	"	ND	76	50-121%	---	---	
Pyrene	437	---	2.71	"	"	"	ND	81	47-127%	---	---	
Carbazole	457	---	4.05	"	"	"	ND	85	50-122%	---	---	
Dibenzofuran	385	---	2.71	"	"	"	ND	71	44-120%	---	---	
4-Chloro-3-methylphenol	466	---	27.1	"	"	"	ND	86	45-122%	---	---	
2-Chlorophenol	388	---	13.5	"	"	"	ND	72	34-121%	---	---	
2,4-Dichlorophenol	408	---	13.5	"	"	"	ND	75	40-122%	---	---	
2,4-Dimethylphenol	377	---	13.5	"	"	"	ND	70	30-127%	---	---	
2,4-Dinitrophenol	526	---	67.6	"	"	"	ND	97	5-137%	---	---	
4,6-Dinitro-2-methylphenol	509	---	67.6	"	"	"	ND	94	29-132%	---	---	
2-Methylphenol	383	---	6.76	"	"	"	ND	71	32-122%	---	---	
3+4-Methylphenol(s)	389	---	6.76	"	"	"	ND	72	34-120%	---	---	
2-Nitrophenol	424	---	27.1	"	"	"	ND	78	36-123%	---	---	
4-Nitrophenol	481	---	27.1	"	"	"	ND	89	30-132%	---	---	
Pentachlorophenol (PCP)	528	---	27.1	"	"	"	ND	98	25-133%	---	---	
Phenol	404	---	5.40	"	"	"	ND	75	34-120%	---	---	
2,3,4,6-Tetrachlorophenol	490	---	13.5	"	"	"	ND	91	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	475	---	13.5	"	"	"	ND	88	40-120%	---	---	

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Columbia West Engineering, Inc.
11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546						Soil						
Matrix Spike (5070714-MS1)						Prepared: 07/27/15 09:41		Analyzed: 07/27/15 17:12				
QC Source Sample: BB-Total Comp (A5G0329-04RE2)												
2,4,5-Trichlorophenol	464	---	13.5	ug/kg dry	"	"	ND	86	41-124%	---	---	
2,4,6-Trichlorophenol	436	---	13.5	"	"	"	ND	81	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	531	---	40.5	"	"	"	ND	98	51-133%	---	---	
Butyl benzyl phthalate	551	---	27.1	"	"	"	ND	102	48-132%	---	---	
Diethylphthalate	457	---	27.1	"	"	"	ND	84	50-124%	---	---	
Dimethylphthalate	469	---	27.1	"	"	"	ND	87	48-124%	---	---	
Di-n-butylphthalate	486	---	27.1	"	"	"	ND	90	51-128%	---	---	
Di-n-octyl phthalate	501	---	27.1	"	"	"	ND	93	44-140%	---	---	Q-31
N-Nitrosodimethylamine	333	---	6.76	"	"	"	ND	62	23-120%	---	---	
N-Nitroso-di-n-propylamine	449	---	6.76	"	"	"	ND	83	36-120%	---	---	
N-Nitrosodiphenylamine	420	---	6.76	"	"	"	ND	78	38-127%	---	---	
Bis(2-Chloroethoxy) methane	395	---	6.76	"	"	"	ND	73	36-121%	---	---	
Bis(2-Chloroethyl) ether	367	---	6.76	"	"	"	ND	68	31-120%	---	---	
Bis(2-Chloroisopropyl) ether	435	---	6.76	"	"	"	ND	80	33-131%	---	---	Q-41
Hexachlorobenzene	481	---	2.71	"	"	"	ND	89	44-122%	---	---	
Hexachlorobutadiene	429	---	6.76	"	"	"	ND	79	32-123%	---	---	
Hexachlorocyclopentadiene	555	---	13.5	"	"	"	ND	103	5-140%	---	---	Q-41
Hexachloroethane	422	---	6.76	"	"	"	ND	78	28-120%	---	---	
2-Chloronaphthalene	376	---	2.71	"	"	"	ND	70	41-120%	---	---	
1,2-Dichlorobenzene	364	---	6.76	"	"	"	ND	67	33-120%	---	---	
1,3-Dichlorobenzene	365	---	6.76	"	"	"	ND	67	30-120%	---	---	
1,4-Dichlorobenzene	368	---	6.76	"	"	"	ND	68	31-120%	---	---	
1,2,4-Trichlorobenzene	371	---	6.76	"	"	"	ND	69	34-120%	---	---	
4-Bromophenyl phenyl ether	490	---	6.76	"	"	"	ND	91	46-124%	---	---	
4-Chlorophenyl phenyl ether	436	---	6.76	"	"	"	ND	81	45-121%	---	---	
Aniline	313	---	13.5	"	"	"	ND	58	7-120%	---	---	
4-Chloroaniline	346	---	6.76	"	"	"	ND	64	16-120%	---	---	

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070714 - EPA 3546							Soil					
Matrix Spike (5070714-MS1)				Prepared: 07/27/15 09:41			Analyzed: 07/27/15 17:12					
QC Source Sample: BB-Total Comp (A5G0329-04RE2)												
2-Nitroaniline	448	---	54.0	ug/kg dry	"	"	ND	83	44-127%	---	---	
3-Nitroaniline	435	---	54.0	"	"	"	ND	80	33-120%	---	---	
4-Nitroaniline	440	---	54.0	"	"	"	ND	81	35-120%	---	---	
Nitrobenzene	439	---	27.1	"	"	"	ND	81	34-122%	---	---	
2,4-Dinitrotoluene	497	---	27.1	"	"	"	ND	92	48-126%	---	---	
2,6-Dinitrotoluene	492	---	27.1	"	"	"	ND	91	46-124%	---	---	
Benzoic acid	816	---	338	"	"	1080	ND	75	5-140%	---	---	
Benzyl alcohol	414	---	13.5	"	"	541	ND	77	29-122%	---	---	
Isophorone	461	---	6.76	"	"	"	ND	85	30-122%	---	---	
Azobenzene (1,2-DPH)	497	---	6.76	"	"	"	ND	92	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	485	---	67.6	"	"	"	ND	90	60-121%	---	---	
3,3'-Dichlorobenzidine	860	---	27.1	"	"	1080	ND	80	22-121%	---	---	
1,2-Dinitrobenzene	475	---	67.6	"	"	541	ND	88	44-120%	---	---	
1,3-Dinitrobenzene	488	---	67.6	"	"	"	ND	90	42-127%	---	---	
1,4-Dinitrobenzene	502	---	67.6	"	"	"	ND	93	37-132%	---	---	
Pyridine	233	---	13.5	"	"	"	ND	43	5-120%	---	---	

<i>Surr: Nitrobenzene-d5 (Surr)</i>	<i>Recovery: 81 %</i>	<i>Limits: 37-122 %</i>	<i>Dilution: 1x</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>70 %</i>	<i>44-115 %</i>	<i>"</i>
<i>Phenol-d6 (Surr)</i>	<i>70 %</i>	<i>33-122 %</i>	<i>"</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>109 %</i>	<i>54-127 %</i>	<i>"</i>
<i>2-Fluorophenol (Surr)</i>	<i>71 %</i>	<i>35-115 %</i>	<i>"</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>102 %</i>	<i>39-132 %</i>	<i>"</i>

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070314 - EPA 3051A						Soil						
Blank (5070314-BLK1)						Prepared: 07/13/15 15:35 Analyzed: 07/13/15 19:01						
EPA 6020A												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	"	"	---	---	---	---	---	---	
Manganese	ND	---	1.00	"	"	---	---	---	---	---	---	
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	
Zinc	ND	---	4.00	"	"	---	---	---	---	---	---	
Blank (5070314-BLK2)						Prepared: 07/13/15 15:35 Analyzed: 07/14/15 15:52						
EPA 6020A												
Copper	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	Q-16
LCS (5070314-BS1)						Prepared: 07/13/15 15:35 Analyzed: 07/13/15 19:06						
EPA 6020A												
Arsenic	48.6	---	1.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Cadmium	50.2	---	0.200	"	"	"	---	100	"	---	---	
Copper	52.6	---	2.00	"	"	"	---	105	"	---	---	
Manganese	49.6	---	1.00	"	"	"	---	99	"	---	---	
Mercury	1.04	---	0.0800	"	"	1.00	---	104	"	---	---	
Zinc	52.0	---	4.00	"	"	50.0	---	104	"	---	---	
Duplicate (5070314-DUP1)						Prepared: 07/13/15 15:35 Analyzed: 07/13/15 19:43						
QC Source Sample: BB-Total Comp (A5G0329-04)												
EPA 6020A												
Arsenic	5.16	---	1.12	mg/kg dry	10	---	3.91	---	---	28	40%	
Cadmium	ND	---	0.224	"	"	---	0.121	---	---	***	40%	
Copper	26.0	---	2.24	"	"	---	25.2	---	---	3	40%	
Manganese	354	---	1.12	"	"	---	323	---	---	9	40%	
Mercury	ND	---	0.0898	"	"	---	ND	---	---	---	40%	
Zinc	34.7	---	4.49	"	"	---	28.9	---	---	18	40%	
Matrix Spike (5070314-MS1)						Prepared: 07/13/15 15:35 Analyzed: 07/13/15 19:48						
QC Source Sample: BB-Total Comp (A5G0329-04)												
EPA 6020A												

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11917 NE 95th Street
Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070314 - EPA 3051A							Soil					
Matrix Spike (5070314-MS1)					Prepared: 07/13/15 15:35		Analyzed: 07/13/15 19:48					
QC Source Sample: BB-Total Comp (A5G0329-04)												
Arsenic	59.1	---	1.09	mg/kg dry	10	54.3	3.91	102	75-125%	---	---	
Cadmium	53.3	---	0.217	"	"	"	0.121	98	"	---	---	
Copper	79.4	---	2.17	"	"	"	25.2	100	"	---	---	
Manganese	381	---	1.09	"	"	"	323	108	"	---	---	
Mercury	1.02	---	0.0868	"	"	1.09	ND	94	"	---	---	
Zinc	87.4	---	4.34	"	"	54.3	28.9	108	"	---	---	

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Vancouver, WA 98682Project: Storedahl-Evraz
Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070723 - EPA 3051A						Soil						
Blank (5070723-BLK1)						Prepared: 07/27/15 11:17		Analyzed: 07/28/15 22:50				
EPA 6020A												
Chromium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.200	"	"	---	---	---	---	---	---	
LCS (5070723-BS1)						Prepared: 07/27/15 11:17		Analyzed: 07/28/15 22:53				
EPA 6020A												
Chromium	51.2	---	1.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Lead	50.8	---	0.200	"	"	"	---	102	"	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070299 - Total Solids (Dry Weight)						Soil						
Duplicate (5070299-DUP3)						Prepared: 07/13/15 15:29		Analyzed: 07/14/15 09:14				
QC Source Sample: BB-N Comp (A5G0329-03)												
EPA 8000C												
% Solids	96.2	---	1.00	% by Weight	1	---	96.0	---	---	0.2	10%	
Duplicate (5070299-DUP4)						Prepared: 07/13/15 15:30		Analyzed: 07/14/15 09:14				
QC Source Sample: BB-Total Comp (A5G0329-04)												
EPA 8000C												
% Solids	95.6	---	1.00	% by Weight	1	---	95.6	---	---	0	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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08/27/15 11:38

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070726							
A5G0329-04	Soil	EPA 8082A	07/13/15 09:11	07/27/15 12:08	11.38g/5mL	10g/5mL	0.88

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070768							
A5G0329-04RE1	Soil	EPA 8081B	07/13/15 09:11	07/27/15 09:39	11.61g/10mL	10g/5mL	1.72

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070714							
A5G0329-04RE2	Soil	EPA 8270D	07/13/15 09:11	07/27/15 09:41	15.81g/2mL	15g/2mL	0.95

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070314							
A5G0329-01	Soil	EPA 6020A	07/13/15 08:40	07/13/15 15:35	0.516g/50mL	0.5g/50mL	0.97
A5G0329-02	Soil	EPA 6020A	07/13/15 08:50	07/13/15 15:35	0.504g/50mL	0.5g/50mL	0.99
A5G0329-03	Soil	EPA 6020A	07/13/15 09:00	07/13/15 15:35	0.475g/50mL	0.5g/50mL	1.05
A5G0329-04	Soil	EPA 6020A	07/13/15 09:11	07/13/15 15:35	0.475g/50mL	0.5g/50mL	1.05
Batch: 5070723							
A5G0329-04	Soil	EPA 6020A	07/13/15 09:11	07/27/15 11:17	0.476g/50mL	0.5g/50mL	1.05

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 5070299							
A5G0329-01	Soil	EPA 8000C	07/13/15 08:40	07/13/15 15:29	1N/A/1N/A	1N/A/1N/A	NA
A5G0329-02	Soil	EPA 8000C	07/13/15 08:50	07/13/15 15:29	1N/A/1N/A	1N/A/1N/A	NA
A5G0329-03	Soil	EPA 8000C	07/13/15 09:00	07/13/15 15:29	1N/A/1N/A	1N/A/1N/A	NA

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Darrell Auvil For Darwin Thomas, Business Development Director

Columbia West Engineering, Inc.

11917 NE 95th Street
Vancouver, WA 98682

Project: Storedahl-Evraz

Project Number: 1033Q
Project Manager: Terry RiceReported:
08/27/15 11:38

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5G0329-04	Soil	EPA 8000C	07/13/15 09:11	07/13/15 15:29	1N/A/1N/A	1N/A/1N/A	NA

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Columbia West Engineering, Inc.11917 NE 95th Street
Vancouver, WA 98682Project: **Storedahl-Evraz**Project Number: 1033Q
Project Manager: Terry Rice**Reported:**
08/27/15 11:38**Notes and Definitions**Qualifiers:

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



Darrell Auvil For Darwin Thomas, Business Development Director

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AMENDED REPORT

**12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax**

Reported:
08/27/15 11:38

Project Number: 1033Q

Project Manager: Terry Rice

08/27/15 11:38

Lab # A560329 COC 1 of 1

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